

Course descriptions

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COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KAG/N- bCXX-005/20		Course title: Additional practice in Mathematics (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: I.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): A (100-92), B (91-84), C (83-76), D (75-68), E (67-60), Fx (<60)					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 76					
A	B	C	D	E	FX
18,42	2,63	26,32	9,21	21,05	22,37
Lecturers: doc. RNDr. Pavel Chalmovianský, PhD., RNDr. Martina Bátorová, PhD.					
Last change: 08.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KAG/N- bCXX-012/20		Course title: Additional practice in Mathematics (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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 61					
A	B	C	D	E	FX
11,48	6,56	14,75	16,39	6,56	44,26
Lecturers: Mgr. Alžbeta Mackovová, RNDr. Martina Bátorová, PhD.					
Last change: 08.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KDMFI/N- bCXX-006/20		Course title: Additional practice in Physics (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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 89					
A	B	C	D	E	FX
19,1	22,47	23,6	7,87	1,12	25,84
Lecturers: PaedDr. Lukáš Bartošovič, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KDMFI/N- bCXX-013/20		Course title: Additional practice in Physics (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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 68					
A	B	C	D	E	FX
10,29	13,24	14,71	10,29	8,82	42,65
Lecturers: PaedDr. Lukáš Bartošovič, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCAL-044/22		Course title: Analytical Chemistry (1)			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 6.					
Educational level: I.					
Prerequisites: PriF.KAgCh/N-bCXX-010/22 - General Chemistry					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 120					
A	B	C	D	E	FX
21,67	11,67	16,67	12,5	25,0	12,5
Lecturers: doc. RNDr. Róbert Bodor, PhD., doc. RNDr. Radoslav Halko, PhD.					
Last change: 07.02.2024					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCAL-046/22		Course title: Analytical Chemistry Practicals (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 6.					
Educational level: I.					
Prerequisites: PriF.KAlCh/N-bCXX-006/22 - Laboratory Technique					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 118					
A	B	C	D	E	FX
33,05	19,49	25,42	11,86	4,24	5,93
Lecturers: RNDr. Peter Troška, PhD., Mgr. Jasna Hradski, PhD., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD.					
Last change: 07.02.2024					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KBCh/N-bCBI-021/22	Course title: Bachelor Thesis in Biochemistry (1)
Educational activities: Type of activities: practicals / seminar Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information Form of Study: practical training / seminar Number of contact hours: per week: 1/2 per level/semester: 13 / 26 Form of the course: on-site learning, remote	
Number of credits: 3	
Recommended semester: 7.	
Educational level: I.	
Prerequisites:	
Course requirements: The course consists of two blocks: (i) seminars, focused on the analysis of selected original scientific publications and bachelor's theses defended in the Biochemistry study program, their presentation and discussion; (ii) practical training, in which students will elaborate seminar tasks aimed at working with information resources and specialised software. The practicals will end with a written test. The evaluation will take into account the activity of students in seminars (66%) and practicals (33%) as follows: A - excellent results, B - above average work, C - ordinary reliable work, D - acceptable results, E - results meeting the minimum criteria , Fx - insufficient results (if a student gives an unacceptably poor performance corresponding to less than 60% of the maximum).	
Learning outcomes: After completing the course, students will gain experience in working with scientific literature in the field of biochemistry and related scientific disciplines. They will get acquainted with information resources and tools for their processing (search and scientometric evaluation of publications), with work with citation tools, with displaying and evaluation of experimental results. They will learn the basics of processing bioinformatic and biological data and the use of appropriate databases. They will get acquainted with the basics of professional presentation, as well as professional and formal requirements that are placed on the final theses and their defense in the bachelor's degree program of Biochemistry. They will learn to process knowledge in the form of research, present an overview of scientific work in writing and through a lecture.	
Class syllabus: 1) Professional and formal requirements for bachelor theses. 2) Basics of processing and presentation of an overview of scientific literature as well as original scientific results.	

- 3) Searching and working with scientific literature. Evaluation of the quality of information resources.
- 4) Available office tools and citation tools to facilitate work with scientific literature.
- 5) Work with databases focusing on biochemistry and related scientific disciplines.
- 6) Processing and graphic design of scientific results for the needs of the final work and publication in a scientific journal.
- 7) Presentations of selected original scientific publications related to the topic of the bachelor thesis.

Recommended literature:

Citation tool Mendeley.

External electronic resources (e.g. SCOPUS, Web of Knowledge, PubMed).

Meaux S. Using color in scientific figures (online).

Tools and databases offered by the National Center for Biotechnology Information (NCBI) and European Bioinformatics Institute (EMBL-EBI).

Original scientific publications selected according to the topic of the bachelor thesis.

Rougier N.P, Droettboom M., Bourne P.E. (2014) Ten Simple Rules for Better Figures. PLOS Computational Biology 10(9): e1003833.

Guidelines for final theses at Comenius University in Bratislava.

Smith, A. - Creating effective scientific figures for publication (online).

Šesták, Z. (2000) How to write and lecture about science (in Czech), Academia.

Matthews, J.R., Bowen, J.M., Matthews, R.W. (2000). Successful scientific writing (A step-by-step guide for biological and medical sciences), Cambridge University Press, 2nd edition.

Languages necessary to complete the course:

Slovak in combination with English (literature in English and Czech)

Notes:

Past grade distribution

Total number of evaluated students: 40

A	B	C	D	E	FX
90,0	7,5	0,0	0,0	0,0	2,5

Lecturers: Mgr. Stanislav Huszár, PhD., Mgr. Filip Brázdovič, PhD., doc. Mgr. Peter Polčic, PhD., prof. RNDr. Jozef Nosek, DrSc.

Last change: 07.10.2022

Approved by: prof. RNDr. Jozef Nosek, DrSc.

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KBCh/N-bCBI-022/22	Course title: Bachelor Thesis in Biochemistry (2)
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information Form of Study: seminar Number of contact hours: per week: 2 per level/semester: 22 Form of the course: on-site learning, remote	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.	
Prerequisites: PriF.KBCh/N-bCBI-020/22 - Principles of Cell Biology	
Course requirements: Activities related to the preparation of a bachelor thesis in the conditions of individualized teaching. Analysis and processing of selected original scientific publications, resp. own scientific results related to the topic of the bachelor thesis. Preparation of bachelor thesis and formulation of its conclusions. The evaluation will be given as follows: A - excellent results, B - above-average work, C - normal reliable work, D - acceptable results, E - results meeting the minimum criteria, Fx - insufficient results (if the student gives an unacceptably poor performance corresponding to less than 60% of the maximum performance).	
Learning outcomes: Development of special knowledge of students needed to master the professional issues defined by the topic of the bachelor thesis in close cooperation with the teacher and student. Students will learn to search for and analyze knowledge from scientific literature, interpret and discuss scientific results, and process them into a written bachelor thesis.	
Class syllabus:	
Recommended literature: Original and review scientific publications recommended by the supervisor according to the topic of the bachelor thesis.	
Languages necessary to complete the course: Slovak in combination with English (literature in English)	
Notes: the course is provided only in the summer semester	

Past grade distribution					
Total number of evaluated students: 40					
A	B	C	D	E	FX
70,0	7,5	5,0	2,5	10,0	5,0
Lecturers: doc. RNDr. Marek Mentel, PhD., Mgr. Filip Brázdovič, PhD., Mgr. Andrea Cillingová, PhD., prof. RNDr. Anton Horváth, CSc., Mgr. Petra Chovančíková, PhD., Mgr. Stanislav Huszár, PhD., prof. RNDr. Marta Kollárová, DrSc., doc. RNDr. Jana Korduláková, PhD., prof. RNDr. Katarína Mikušová, DrSc., Ing. Martina Neboháčová, PhD., prof. RNDr. Jozef Nosek, DrSc., doc. Mgr. Peter Polčic, PhD., Ing. Pavol Sulo, CSc., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD., Mgr. Júlia Zemanová, PhD.					
Last change: 07.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KBCh/N-bOBH-102/22	Course title: Bachelor's Thesis Defence
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 07.11.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KAlCh/N-bOBH-101/22	Course title: Bachelor's Thesis Defence in Analytical Chemistry
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 30.09.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KAgCh/N-bOBH-101/22	Course title: Bachelor's Thesis Defence in Inorganic Chemistry
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 27.07.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJCh/N-bOBH-101/22	Course title: Bachelor's Thesis Defence in Nuclear chemistry and Radioecology
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 10.10.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFTCh/N-bOBH-101/22	Course title: Bachelor's Thesis Defence in Physical Chemistry
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 04.11.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFTCh/N-bOBH-102/22	Course title: Bachelor's Thesis Defence in Physical Chemistry in Theoretical and Computational Chemistry
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 04.11.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

STATE EXAM DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KOrCh/N-bOBH-101/22	Course title: Bachelor's Thesis in Organic and Bioorganic Chemistry Defence
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 07.11.2022	
Approved by: prof. RNDr. Jozef Nosek, DrSc.	

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCXX-008/22		Course title: Basics of Chemistry (1)			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 3 per level/semester: 26 / 39 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 1.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 42					
A	B	C	D	E	FX
16,67	4,76	11,9	21,43	16,67	28,57
Lecturers: RNDr. Jana Chrappová, PhD.					
Last change: 09.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCOR-010/22		Course title: Basics of Chemistry (2)			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 3 per level/semester: 26 / 39 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 2.					
Educational level: I.					
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					
A	B	C	D	E	FX
11,54	7,69	7,69	11,54	0,0	61,54
Lecturers: RNDr. Jana Chrappová, PhD., Mgr. Henrieta Stankovičová, PhD.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCXX-001/22		Course title: Basics of chemical calculations			
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: 1.					
Educational level: I.					
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
20,0	12,5	17,5	22,5	10,0	17,5
Lecturers: Ing. Darina Tóthová, CSc., RNDr. Katarína Cifraničová					
Last change: 10.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCXX-009/22		Course title: Basics of laboratory technology			
Educational activities: Type of activities: practicals Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 2.					
Educational level: I.					
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					
A	B	C	D	E	FX
33,33	12,5	16,67	0,0	0,0	37,5
Lecturers: RNDr. Dominik Juračka					
Last change: 10.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAn/N-XXXX-005/21		Course title: Bioarchaeology			
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: 3					
Recommended semester: 1., 3., 5.					
Educational level: I., 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: 1253					
A	B	C	D	E	FX
68,08	10,38	6,78	5,75	4,79	4,23
Lecturers: doc. RNDr. Radoslav Beňuš, PhD., Mgr. Silvia Bodoriková, PhD., RNDr. Michaela Dörnhöferová, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCXX-018/22		Course title: Biochemistry (1)			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 131					
A	B	C	D	E	FX
15,27	17,56	16,79	17,56	16,03	16,79
Lecturers: prof. RNDr. Katarína Mikušová, DrSc., doc. RNDr. Marek Mentel, PhD., Mgr. Júlia Zemanová, PhD., Mgr. Barbora Bučková, PhD., Mgr. Petra Chovančíková, PhD.					
Last change: 08.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCXX-019/22		Course title: Biochemistry (2)			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 75					
A	B	C	D	E	FX
17,33	20,0	14,67	9,33	17,33	21,33
Lecturers: prof. RNDr. Katarína Mikušová, DrSc., doc. RNDr. Jana Korduláková, PhD., doc. Mgr. Peter Polčic, PhD., Mgr. Stanislav Huszár, PhD., Mgr. Petra Chovančíková, PhD., Ing. Martina Neboháčová, PhD., Mgr. Júlia Zemanová, PhD.					
Last change: 02.09.2024					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCXX-020/22		Course title: Biochemistry Practicals			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 123					
A	B	C	D	E	FX
26,02	34,15	25,2	10,57	0,81	3,25
Lecturers: doc. Mgr. Peter Polčic, PhD.					
Last change: 12.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-019/22		Course title: Biochemistry and Cell Biology Laboratory			
Educational activities: Type of activities: practicals Number of hours: per week: 8 per level/semester: 104 Form of the course: on-site learning					
Number of credits: 8					
Recommended semester: 8.					
Educational level: I.					
Prerequisites: PriF.KBCh/N-bCXX-018/22 - Biochemistry (1)					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 39					
A	B	C	D	E	FX
7,69	25,64	33,33	12,82	20,51	0,0
Lecturers: Ing. Martina Neboháčová, PhD., Mgr. Stanislav Huszár, PhD., doc. RNDr. Igor Zeman, PhD., Mgr. Júlia Zemanová, PhD., Mgr. Barbora Bučková, PhD.					
Last change: 08.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCXX-009/22		Course title: Bioinorganic Chemistry			
Educational activities: Type of activities: lecture / 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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 31					
A	B	C	D	E	FX
12,9	35,48	22,58	16,13	9,68	3,23
Lecturers: RNDr. Marcel Zámocký, DrSc.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCFZ-041/22		Course title: Biophysical Chemistry			
Educational activities: Type of activities: lecture / 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: 7.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 35					
A	B	C	D	E	FX
51,43	22,86	22,86	0,0	0,0	2,86
Lecturers: doc. RNDr. Ivan Valent, CSc.					
Last change: 04.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFR/N-bBXX-068/22		Course title: Cell Biology			
Educational activities: Type of activities: practicals / lecture 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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 826					
A	B	C	D	E	FX
9,32	17,68	24,94	20,22	16,71	11,14
Lecturers: doc. Mgr. Michal Martinka, PhD., prof. RNDr. Helena Bujdáková, CSc., prof. Mgr. Iveta Herichová, DrSc., doc. RNDr. Martin Mrva, PhD., doc. Mgr. Ľuboš Molčan, PhD., doc. Mgr. Renáta Švubová, PhD., doc. Mgr. Boris Bokor, PhD., doc. Mgr. Viktor Demko, PhD., RNDr. Jana Kohanová, PhD., doc. RNDr. Zuzana Lukačová, PhD.					
Last change: 15.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCXX-002/22		Course title: Chemical Calculation (1)			
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: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 276					
A	B	C	D	E	FX
15,22	14,13	18,12	17,75	14,13	20,65
Lecturers: doc. RNDr. Jozef Tatiersky, PhD., doc. Mgr. Olivier Monfort, PhD.					
Last change: 14.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCAG-005/22		Course title: Chemical Calculation (2)			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 35					
A	B	C	D	E	FX
45,71	8,57	8,57	11,43	5,71	20,0
Lecturers: doc. RNDr. Jozef Tatiersky, PhD., RNDr. Ján Šimunek, PhD.					
Last change: 14.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCXX-007/22		Course title: Chemical Excursion			
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 3d Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 68					
A	B	C	D	E	FX
92,65	0,0	0,0	0,0	0,0	7,35
Lecturers: Mgr. Roman Bystrický, PhD., prof. RNDr. Michal Galamboš, PhD., RNDr. Robert Kubinec, CSc., Mgr. Martin Motola, PhD., Mgr. Tibor Peňaška, PhD., doc. RNDr. Ivan Valent, CSc.					
Last change: 15.12.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCJD-043/22		Course title: Chemical Legislation			
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: 2., 4., 6., 8.					
Educational level: I.					
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
26,67	6,67	20,0	26,67	6,67	13,33
Lecturers: doc. RNDr. Oľga Roszkopfová, PhD.					
Last change: 10.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCXX-022/22		Course title: Chemical Structure			
Educational activities: Type of activities: lecture / 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: 6., 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 75					
A	B	C	D	E	FX
29,33	33,33	22,67	8,0	6,67	0,0
Lecturers: prof. RNDr. Vladimír Kellö, DrSc., prof. RNDr. Ivan Černušák, DrSc.					
Last change: 19.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCAG-016/22		Course title: Colloquium in Inorganic Chemistry			
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: 4.					
Educational level: I.					
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. Mgr. Olivier Monfort, PhD.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-132/22		Course title: ESP 1/English for Specific Purposes			
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: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 547					
A	B	C	D	E	FX
72,76	16,09	4,75	1,83	1,46	3,11
Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slovákova, PhD., Mgr. Simona Dobiašová, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-133/22		Course title: ESP 2/English for Specific Purposes			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 455					
A	B	C	D	E	FX
82,2	11,65	3,08	1,1	0,44	1,54
Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slovákova, PhD., Mgr. Simona Dobiašová, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-134/22		Course title: ESP 3/English for Specific Purposes			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 382					
A	B	C	D	E	FX
79,84	13,35	2,88	0,52	0,79	2,62
Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slovákova, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-135/22		Course title: ESP 4/English for Specific Purposes			
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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 254					
A	B	C	D	E	FX
80,31	12,99	3,94	1,18	0,39	1,18
Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slovákova, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-024/22		Course title: Elective Exercise in Biochemistry			
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 1t Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 6.					
Educational level: I.					
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					
A	B	C	D	E	FX
64,0	24,0	0,0	4,0	0,0	8,0
Lecturers: Mgr. Petra Chovančíková, PhD.					
Last change: 13.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-025/22		Course title: Elective Laboratory Practice in Biochemistry			
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 2t Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 6., 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 10					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Katarína Mikušová, DrSc.					
Last change: 27.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-022/22		Course title: Elective Practice from Chemistry			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 5., 7.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 32					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Martin Putala, CSc., RNDr. Jana Chrappová, PhD., prof. RNDr. Marian Masár, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Michal Galamboš, PhD.					
Last change: 27.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KMANM/N- bCXX-017/15		Course title: Elective Seminar in Mathematics			
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: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 311					
A	B	C	D	E	FX
49,2	18,65	6,75	7,72	8,68	9,0
Lecturers: doc. PaedDr. Klára Velmovská, PhD., PaedDr. Barbora Gejdošová, PhD., PaedDr. Ladislav Janiga, PhD., PaedDr. Silvia Novotná, PhD., Mgr. Laura Caban					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCJD-037/22		Course title: Elective Seminar in Nuclear chemistry			
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 118					
A	B	C	D	E	FX
76,27	11,86	8,47	1,69	0,0	1,69
Lecturers: RNDr. Katarína Cifraničová, doc. RNDr. Eva Viglašová, PhD.					
Last change: 10.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-025/23		Course title: Elective Seminar on Mechanisms of Organic Reactions			
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: 5.					
Educational level: I.					
Prerequisites: PriF.KOrCh/N-bCXX-048/22 - Organic Chemistry 2					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 37					
A	B	C	D	E	FX
24,32	35,14	21,62	18,92	0,0	0,0
Lecturers: doc. RNDr. Martin Putala, CSc., Mgr. Ambroz Almássy, PhD., Mgr. Peter Šramel, PhD., Ing. Michal Májek, PhD.					
Last change:					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCOR-001/22		Course title: Elective Seminar on Organic Chemistry			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 206					
A	B	C	D	E	FX
36,89	13,59	13,11	9,71	10,19	16,5
Lecturers: doc. Ing. Mária Mečiarová, PhD., doc. RNDr. Peter Magdolen, PhD., RNDr. Viera Poláčková, PhD., Mgr. Henrieta Stankovičová, PhD., Mgr. Tibor Peňaška, PhD., Mgr. Dominika Mravcová, PhD., Mgr. Viktória Némethová, PhD., Mgr. Bernard Mravec, PhD.					
Last change: 25.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCOR-008/22		Course title: Elective Seminar on Organic Synthesis			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 84					
A	B	C	D	E	FX
47,62	8,33	13,1	8,33	5,95	16,67
Lecturers: doc. Ing. Mária Mečiarová, PhD., Mgr. Henrieta Stankovičová, PhD.					
Last change: 25.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCXX-043/22		Course title: Environmental Chemistry			
Educational activities: Type of activities: lecture / 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: 6., 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Radoslav Halko, PhD., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KGe/N-bBGE-012/22		Course title: Evolutionary Biology			
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: 3					
Recommended semester: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 589					
A	B	C	D	E	FX
5,77	18,51	24,62	22,75	22,07	6,28
Lecturers: prof. RNDr. Ľubomír Tomáška, DrSc., RNDr. Regina Sepšiová, PhD., doc. Mgr. Peter Mikulíček, PhD., doc. Mgr. Peter Vďačný, PhD., doc. RNDr. Ján Radvánszky, PhD., doc. RNDr. Marek Mentel, PhD.					
Last change: 22.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCJD-042/22		Course title: Exercise in Nuclear chemistry			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 143					
A	B	C	D	E	FX
23,78	27,27	20,28	16,08	8,39	4,2
Lecturers: RNDr. Matej Krivošík, PhD., RNDr. Dominik Juračka					
Last change: 28.03.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCXX-026/22		Course title: Exercise in Physical Chemistry (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 5.					
Educational level: I.					
Prerequisites: PriF.KAlCh/N-bCXX-006/22 - Laboratory Technique					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 121					
A	B	C	D	E	FX
89,26	2,48	0,83	0,83	0,83	5,79
Lecturers: doc. RNDr. Ivan Valent, CSc., doc. Mgr. Pavel Neogrády, DrSc., Mgr. Daniel Furka, PhD., Mgr. Samuel Furka, PhD., Mgr. Táňa Sebechlebská, PhD.					
Last change: 19.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-136/22		Course title: Fachdeutsch in Naturwissenschaften 1			
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: 5.					
Educational level: I.					
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					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Karin Rózsová Wolfová					
Last change: 23.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-137/22		Course title: Fachdeutsch in Naturwissenschaften 2			
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: 6.					
Educational level: I.					
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
93,33	0,0	0,0	0,0	0,0	6,67
Lecturers: Mgr. Karin Rózsová Wolfová					
Last change: 23.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF-FMFI.KAG/N- bCXX-002/20	Course title: Fundamentals of Mathematics (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: 6	
Recommended semester: 1.	
Educational level: I.	
Prerequisites:	
Course requirements: The student can get 50% for exercises and 50% for the final exam. The student must obtain at least half of the points for the exercises in order to pass to the final exam. During the teaching part of the semester, the student obtains points via written homework assignments. The final exam consists of a passfail test (10%) and a regular test (20% examples, 20% theoretical questions). Successful completion (8 points out of 10 points) of the passfail test is a necessary condition for admission to the regular test. To successfully pass the final exam, it is necessary to obtain at least half of the points together for both of the final exam tests. Grading: A (100-92), B (91-84), C (83-76), D (75-68), E (67-60), Fx (<60). Scale of assessment (preliminary/final): Preliminary assessment 50% (written homework assignments) / 50% final exam (10% passfail and 40% regular test).	
Learning outcomes: Students will gain the necessary skills in manipulation with numbers, mathematical expressions, elementary functions. They will expand their knowledge of geometry.	
Class syllabus: 1. Mathematical terminology and mathematical logic. Basics of proper mathematical expression and designation. 2. Logical formulae and proofs. Types of mathematical proofs illustrated in elementary examples. 3. Sets and number sets (basic operations with numbers and expressions, numbers, various notations, fractions). Numbers and their geometric representation on a line (absolute value and its geometric meaning). 4. Elementary number theory, divisibility, prime numbers, compound numbers. 5. Expressions, linear and quadratic expressions with variables. Properties of mathematical operations (commutation, distribution, simplification, etc.) 6. Elementary functions (polynomial, linear, quadratic, n-th power and n-th root, trigonometric, exponential, logarithmic functions, their properties and calculation). The graph of a real function and its basic properties.	

7. Equations and inequalities of one variable (linear and quadratic, with absolute value, with n-th power and n-th root, trigonometric, exponential, logarithmic). Calculator vs. adjustment before enumeration.					
Recommended literature: Základy matematiky / Mário Boroš : Ikar, 2016 Seminár z matematiky 1-3 / Zbyněk Kubáček, Ján Žabka : Mapa Slovakia					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 107					
A	B	C	D	E	FX
0,0	8,41	18,69	14,95	4,67	53,27
Lecturers: RNDr. Martina Bátorová, PhD.					
Last change: 18.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF-FMFI.KAG/C- bCXX-010/20	Course title: Fundamentals of Mathematics (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: 6	
Recommended semester: 2.	
Educational level: I.	
Prerequisites:	
Course requirements: The student can get 50% for exercises and 50% for the final exam. The student must obtain at least half of the points for the exercises in order to pass to the final exam. During the teaching part of the semester, the student obtains points via written homework assignments. The final exam consists of a passfail test (10%) and a regular test (20% examples, 20% theoretical questions). Successful completion (8 points out of 10 points) of the passfail test is a necessary condition for admission to the regular test. To successfully pass the final exam, it is necessary to obtain at least half of the points together for both of the final exam tests. Grading: A (100-92), B (91-84), C (83-76), D (75-68), E (67-60), Fx (<60). Scale of assessment (preliminary/final): Preliminary assessment 50% (written homework assignments) / 50% final exam (10% passfail and 40% regular test).	
Learning outcomes: Students will acquire the necessary skills in mathematical operations with complex numbers, combinatorics, basics of probability and statistics, and analytical and synthetic geometry in the plane and space.	
Class syllabus: 8. Basics of calculating sequences and series (arithmetic and geometric sequence, partial sums) and their applications. 9. Linear equations and inequalities with two or three unknowns and their solutions. Equation and inequalities with parameters. 10. Elementary analytical geometry in the plane (vectors, lines, triangle, polygon, circle, conic section, scalar product) and its relationship with solutions of equations. Isometries and similarities in plane. 11. Elementary analytical geometry in space (planes, vector product). Basic bodies and their imaging. 12. Complex numbers, calculations and their geometric properties (representations, basic operations, complex n-th power and n-th root, Moivre's theorem) 13. Basic combinatorial procedures without using the traditional formulae	

14. Basic concept of probability and statistics (reading diagrams and understanding of basic statistical indicators, basic understanding of the relationship between truth and statistical indicator)					
15. Limits via geometric and computational methods (basic rules of calculating limits, derivatives of elementary functions, graphs of functions and their properties)					
Recommended literature:					
Základy matematiky / Mário Boroš : Ikar, 2016					
Seminár z matematiky 1-3 / Zbyněk Kubáček, Ján Žabka : Mapa Slovakia					
Languages necessary to complete the course:					
Slovak, English					
Notes:					
Past grade distribution					
Total number of evaluated students: 87					
A	B	C	D	E	FX
1,15	3,45	5,75	12,64	5,75	71,26
Lecturers: RNDr. Martina Bátorová, PhD.					
Last change: 18.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KDMFI/N- bCXX-003/20		Course title: Fundamentals of Physics (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: 5					
Recommended semester: 1.					
Educational level: I.					
Prerequisites:					
Course requirements: The assessment consists of two tests, two seminar works and a final exam. Indicative rating scale: A 95%, B 90%, C 80%, D 70%, E 60%. Credits will not be awarded to a student who obtains a grade of less than 60%.					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 104					
A	B	C	D	E	FX
11,54	23,08	22,12	13,46	6,73	23,08
Lecturers: doc. RNDr. Peter Demkanin, PhD., PaedDr. Tünde Kozánek Kiss, PhD., PaedDr. Lukáš Bartošovič, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KDMFI/N- bCXX-011/20		Course title: Fundamentals of Physics (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: 5					
Recommended semester: 2.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 83					
A	B	C	D	E	FX
12,05	1,2	9,64	12,05	14,46	50,6
Lecturers: doc. PaedDr. Viera Haverlíková, PhD., PaedDr. Tünde Kozánek Kiss, PhD.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF/N-bCXX-019/22	Course title: Fundamentals of Physics for Chemistry
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 3.	
Educational level: I.	
Prerequisites:	
Course requirements: continuous assessment: controlled test in the middle of the semester, final assessment: written test, Indicative rating scale: A 95%, B 90%, C 80%, D 70%, E 60%. Credits will not be awarded to a student who obtains a grade of less than 60%. Scale of assessment (preliminary/final): 20/80	
Learning outcomes: Extension and deepening of knowledge from selected parts of high school physics so that the student can use the acquired knowledge in solving physics problems and reach the required entry level required for the subject Physics for Chemistry in next term.	
Class syllabus: System of SI units, dimensional analysis. necessary mathematical apparatus, point mass and determination of its position in 1D, 2D, 3D; Mass point motions: velocity, acceleration, force, Newton's laws of dynamics. circular motion, oscillations and waves. Kinetic and potential energy, momentum, work, power, conservation laws in mechanics, torque, pressure, hydrostatics, hydrodynamics. Temperature, heat, gas statistics, thermodynamics. Gravitational field, Kepler's laws. Electric field, Coulomb's law, intensity and potential of el. field, el. voltage, homogeneous el. field, el. current and resistance. Magnetic field - a vector of magnetic induction, the force acting on an electric charge (current) in a magnetic field, electromagnetic induction, electromagnetic radiation,	
Recommended literature:	
Languages necessary to complete the course: Slovak in combination with English (study literature also in English)	
Notes: The elective course is provided only in the winter semester and runs concurrently for students of chemistry, biochemistry and medical biology.	

Past grade distribution					
Total number of evaluated students: 71					
A	B	C	D	E	FX
22,54	35,21	22,54	12,68	4,23	2,82
Lecturers: doc. RNDr. Tomáš Roch, Dr. techn.					
Last change: 18.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KGe/N-bCXX-008/22		Course title: General Biology			
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: 3					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 215					
A	B	C	D	E	FX
58,6	9,77	10,23	10,23	8,84	2,33
Lecturers: prof. RNDr. Ľubomír Tomáška, DrSc.					
Last change: 14.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCXX-010/22		Course title: General Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 184					
A	B	C	D	E	FX
13,04	19,57	21,2	23,91	9,24	13,04
Lecturers: prof. RNDr. Jozef Noga, DrSc., RNDr. Ján Šimunek, PhD., Mgr. Martin Motola, PhD.					
Last change: 27.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KGe/N-bBXX-037/22		Course title: Genetics			
Educational activities: Type of activities: practicals / lecture 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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 203					
A	B	C	D	E	FX
6,9	6,9	18,72	22,17	25,62	19,7
Lecturers: doc. RNDr. Eliška Gálová, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Filip Červenák, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Katarína Procházková, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Vladimíra Džugasová, PhD., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Andrea Valentová, Mgr. Lucia Mentelová, PhD., Mgr. Veronika Vozáriková, PhD., Mgr. Kristína Mariničová, Mgr. Nina Mayerová, PhD., Mgr. Terézia Hromádková					
Last change: 22.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KGe/N-XXXX-004/21		Course title: Genetics for everyone			
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: 3					
Recommended semester: 2., 4., 6.					
Educational level: I., 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: 1468					
A	B	C	D	E	FX
94,01	0,68	0,0	0,0	0,0	5,31
Lecturers: RNDr. Regina Sepšiová, PhD., doc. Mgr. Miroslava Slaninová, Dr., Mgr. Filip Červenák, PhD., prof. RNDr. Andrea Ševčovičová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Stanislav Kyzek, PhD.					
Last change: 15.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KRGRR/N- XXXX-001/21		Course title: Geography of the World in the 21.st century			
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: 3					
Recommended semester: 2., 4., 6.					
Educational level: I., 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: 147					
A	B	C	D	E	FX
83,67	2,72	6,12	0,68	0,68	6,12
Lecturers: Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD., doc. RNDr. František Križan, PhD., doc. RNDr. Eva Rajčáková, CSc., Mgr. Michala Sládeková Madajová, PhD., RNDr. Angelika Švecová, PhD., doc. Mgr. Martin Šveda, PhD., prof. RNDr. Ladislav Tolmáči, PhD., RNDr. Mgr. Anna Tolmáči, PhD., Mgr. Gabriel Zubriczký, PhD.					
Last change: 15.05.2021					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KGP/N-XXXX-007/21		Course title: Geology in Nutshell			
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning					
Number of credits: 3					
Recommended semester: 2., 4., 6.					
Educational level: I., 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: 57					
A	B	C	D	E	FX
89,47	0,0	0,0	0,0	8,77	1,75
Lecturers: prof. RNDr. Roman Aubrecht, Dr., prof. Mgr. Natália Hlavatá Hudáčková, PhD., doc. RNDr. Jozef Hók, CSc., prof. RNDr. Michal Kováč, DrSc., doc. RNDr. Alexander Lačný, PhD., doc. RNDr. Jana Fridrichová, PhD., RNDr. Ondrej Nemeč, PhD.					
Last change: 20.01.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KPI/N-XXXX-009/21		Course title: Global Environmental Issues			
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: 3					
Recommended semester: 2., 4., 6.					
Educational level: I., 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: 1121					
A	B	C	D	E	FX
90,45	0,0	0,27	0,0	0,0	9,28
Lecturers: doc. RNDr. Katarína Pavličková, CSc., prof. RNDr. Pavel Dlapa, PhD., doc. RNDr. Martina Zvaríková, PhD., doc. RNDr. Ľubomír Jurkovič, PhD.					
Last change: 09.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KEM/N-bXXX-001/22		Course title: Green University 1			
Educational activities: Type of activities: practicals / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1., 2., 3., 4., 5., 6..					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 114					
A	B	C	D	E	FX
96,49	0,0	0,0	0,0	0,0	3,51
Lecturers: RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., RNDr. Hubert Žarnovičan, PhD., Mgr. Martin Šebesta, PhD.					
Last change: 22.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KEM/N-bXXX-002/22		Course title: Green University 2			
Educational activities: Type of activities: practicals / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1., 2., 3., 4., 5., 6..					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 79					
A	B	C	D	E	FX
92,41	0,0	0,0	0,0	0,0	7,59
Lecturers: RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD., RNDr. Hubert Žarnovičan, PhD.					
Last change: 22.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCXX-008/22		Course title: Identification and Quantification of Chemical Substances			
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: 5.					
Educational level: I.					
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
87,5	6,25	0,0	0,0	0,0	6,25
Lecturers: doc. RNDr. Andrea Vojs Staňová, PhD., doc. RNDr. Róbert Góra, PhD., doc. RNDr. Róbert Bodor, PhD., prof. RNDr. Marian Masár, PhD., doc. RNDr. Radoslav Halko, PhD.					
Last change: 30.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KMV/N-bBXX-030/22		Course title: Immunology			
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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Miroslava Šupolíková, PhD., doc. RNDr. Tatiana Betáková, DrSc.					
Last change: 12.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCAL-037/22		Course title: Introduction to Mass Spectrometry			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
25,0	50,0	0,0	0,0	25,0	0,0
Lecturers: doc. RNDr. Andrea Vojs Staňová, PhD.					
Last change: 30.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N_bCFZ-042/22		Course title: Introduction to Mathematical Processing of Chemical Data			
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: 6.					
Educational level: I.					
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					
A	B	C	D	E	FX
58,62	20,69	17,24	3,45	0,0	0,0
Lecturers: doc. Mgr. Michal Pitoňák, PhD., doc. Ing. Roman Szücs, PhD.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCXX-006/22		Course title: Laboratory Technique			
Educational activities: Type of activities: practicals Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 187					
A	B	C	D	E	FX
52,94	32,62	7,49	1,07	1,07	4,81
Lecturers: doc. RNDr. Radoslav Halko, PhD., RNDr. Jana Chrappová, PhD., doc. RNDr. Monika Jerigová, PhD., RNDr. Viera Poláčková, PhD., Mgr. Henrieta Stankovičová, PhD., RNDr. Eva Noskovičová, PhD., Mgr. Peter Šramel, PhD., Mgr. Tibor Peňaška, PhD., Mgr. Dominika Lacušková, RNDr. Katarína Chovancová, PhD., doc. Mgr. Olivier Monfort, PhD.					
Last change: 25.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-138/22		Course title: Latin			
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: 1., 2..					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 374					
A	B	C	D	E	FX
59,63	19,79	7,75	3,48	2,41	6,95
Lecturers: Mgr. Ivan Lábaj, PhD., RNDr. Tatiana Slováková, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KPI/N-XXXX-008/21		Course title: Man as a part of the nature			
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: 3					
Recommended semester: 1., 3., 5.					
Educational level: I., 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: 1306					
A	B	C	D	E	FX
90,28	0,38	0,0	0,0	0,08	9,26
Lecturers: doc. RNDr. Martina Zvaríková, PhD., prof. RNDr. Pavel Dlapa, PhD., RNDr. Malvína Reiffers Čierniková, PhD., prof. RNDr. Elena Masarovičová, DrSc., prof. PaedDr. Pavol Prokop, DrSc., prof. RNDr. Peter Fedor, DrSc., prof. Ing. Eva Chmielewská, CSc., RNDr. Martin Labuda, PhD., doc. RNDr. Eva Pauditšová, PhD., RNDr. Hubert Žarnovičan, PhD., doc. RNDr. Stanislav Rapant, DrSc., doc. RNDr. Ľubomír Jurkovič, PhD., doc. Mgr. Tomáš Lánczos, PhD., doc. RNDr. Katarína Pavličková, CSc.					
Last change: 09.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF/N-bCXX-150/22		Course title: Mathematics for the Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 3 per level/semester: 52 / 39 Form of the course: on-site learning					
Number of credits: 7					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 193					
A	B	C	D	E	FX
10,88	9,84	8,81	16,58	29,02	24,87
Lecturers: PaedDr. Barbora Gejdošová, PhD., RNDr. Kristína Rostás, PhD., PaedDr. Silvia Novotná, PhD., Mgr. Daša Červeňová, Mgr. Patrik Rezák					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-015/22		Course title: Methods 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: 7.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 67					
A	B	C	D	E	FX
26,87	10,45	20,9	10,45	25,37	5,97
Lecturers: Ing. Pavol Sulo, CSc., Mgr. Stanislav Huszár, PhD.					
Last change: 08.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-023/22		Course title: Methods in Chemical Research			
Educational activities: Type of activities: lecture Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
50,0	25,0	25,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Radoslav Halko, PhD., doc. RNDr. Martin Putala, CSc., doc. RNDr. Erik Rakovský, PhD., doc. RNDr. Monika Jerigová, PhD.					
Last change: 07.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KBCh/N-bCBI-023/22	Course title: Methods in Molecular and Cell Biology
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	
Type, volume, methods and workload of the student - additional information Form of Study: lecture / seminar Number of contact hours: per week: 2/2 per level/semester: 22 / 22 Form of the course: on-site learning, remote	
Number of credits: 4	
Recommended semester: 8.	
Educational level: I.	
Prerequisites:	
Course requirements: There will be regular written tests during the semester. Credits will not be awarded to a student who gets less than 60% of the total marks in these tests. The subject will be completed by oral exam. The evaluation will be awarded as follows: A - excellent results, B - above average work, C - normal reliable work, D - acceptable results, E - results meeting the minimum criteria, Fx - insufficient results (unacceptably weak knowledge corresponding to less than 60% of the required subject range). Scale of assessment (preliminary/final): 0 / 100	
Learning outcomes: After completing the course, students will have an overview of key methods and experimental approaches used in molecular and cell biology.	
Class syllabus: Principles of preparation of recombinant DNA molecules. Construction of gene libraries (genomic and cDNA). Properties and types of vectors. Recombinant selection and analysis. Enzymes in recombinant DNA techniques. Nucleic acid hybridization and preparation of molecular probes. Labeling of DNA and RNA molecules, radioactive and non-radioactive techniques. Southern and Northern blotting, in situ hybridization, subtractive hybridization, PNA and antisense probes. DNA microchip technology. Polymerase chain reaction (PCR). Principle and variations of the technique: asymmetric PCR, inverse PCR, reverse transcriptase PCR, quantitative PCR. Isothermal amplification of nucleic acids. Nucleic acid sequencing. First, second and third generation sequencing technologies.	

In vitro and in vivo mutagenesis. Methods of site-directed mutagenesis and its practical use. Gene disruptions and gene replacements.
Molecular evolution in vitro. Preparation of aptamers and nucleic acids with catalytic activity in vitro. SELEX.
Principles of heterologous gene expression. Expression systems. Host strains. DNA transfer techniques into cells. Preparation of recombinant proteins.
Methods for isolation and investigation of proteins (electrophoretic methods, native and denaturing electrophoresis, isoelectric focusing, chromatographic methods, Western blotting, immunological methods).
Methods of protein interaction analysis (DNA-protein, RNA-protein, protein-protein: DNase I footprinting, gel retardation, NC filter binding assay, one-, two- and three-hybrid system, reverse two-hybrid system, chemical crosslinking).
Microscopic methods (light, fluorescence and electron microscopy, use of green fluorescent protein).

Recommended literature:

Watson et al. (2007) Recombinant DNA: Genes and Genomes – A short course. 3rd edition. CSHL Press.
Alberts et al. (2014) Molecular Biology of the Cell, Garland Science.
Lodish et al. (2016) Molecular Cell Biology. 8th Edition, W. H. Freeman and Company.

Languages necessary to complete the course:

Slovak in combination with English (textbooks in English)

Notes:

Past grade distribution

Total number of evaluated students: 97

A	B	C	D	E	FX
50,52	20,62	15,46	7,22	5,15	1,03

Lecturers: doc. Mgr. Peter Polčic, PhD., Ing. Martina Neboháčová, PhD., prof. RNDr. Jozef Nosek, DrSc., Mgr. Katarína Procházková, PhD.

Last change: 07.10.2022

Approved by: prof. RNDr. Jozef Nosek, DrSc.

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KMV/N-bCXX-009/22		Course title: Microbiology and Virology			
Educational activities: Type of activities: practicals / lecture 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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 205					
A	B	C	D	E	FX
37,07	30,24	14,15	8,78	6,83	2,93
Lecturers: prof. RNDr. Helena Bujdáková, CSc., prof. RNDr. Yveta Gbelská, CSc., doc. RNDr. Katarína Šoltys, PhD., doc. RNDr. Miroslava Šupolíková, PhD., RNDr. Kamila Koči, PhD., PhDr. Eva Nováková, doc. RNDr. Nora Tóth Hervay, PhD., RNDr. Jana Blaškovičová, PhD.					
Last change: 12.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bBXX-026/22		Course title: Natural Compounds			
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					
Type, volume, methods and workload of the student - additional information Forma výučby: prednáška / seminár Odporúčaný rozsah výučby (v hodinách): Týždenný: 1 h / 1 h Za obdobie štúdia: 13 h / 13 h Metóda štúdia: prezenčná					
Number of credits: 2					
Recommended semester: 5., 7.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 49					
A	B	C	D	E	FX
32,65	22,45	12,24	12,24	8,16	12,24
Lecturers: Mgr. Ambroz Almásy, PhD.					
Last change: 14.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCOR-023/22		Course title: New Trends in Organic 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: 5.					
Educational level: I.					
Prerequisites: PriF.KOrCh/N-bCXX-047/22 - Organic 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: 12					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Martin Putala, CSc., doc. RNDr. Andrej Boháč, CSc., doc. RNDr. Peter Magdolen, PhD., RNDr. Marek Cigáň, PhD., Mgr. Henrieta Stankovičová, PhD., prof. Mgr. Radovan Šebesta, DrSc., doc. Ing. Mária Mečiarová, PhD., Mgr. Peter Šramel, PhD., Mgr. Tibor Peňaška, PhD.					
Last change: 21.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.LPM/N-bLPM-049/22		Course title: Nové trendy v materiálovej chémii			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: RNDr. Milan Sýkora, PhD., MBA, Mgr. Roman Bystrický, PhD., doc. Mgr. Olivier Monfort, PhD., Mgr. Martin Motola, PhD., prof. RNDr. Gustáv Plesch, DrSc.					
Last change: 06.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-bCJD-029/22		Course title: Nuclear chemistry 1			
Educational activities: Type of activities: lecture / 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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 150					
A	B	C	D	E	FX
14,0	10,67	22,0	17,33	24,0	12,0
Lecturers: prof. RNDr. Michal Galamboš, PhD., doc. RNDr. Eva Viglašová, PhD.					
Last change: 17.04.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCXX-018/22		Course title: Optional Seminar in Analytical Chemistry			
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 105					
A	B	C	D	E	FX
86,67	12,38	0,0	0,0	0,0	0,95
Lecturers: doc. RNDr. Róbert Bodor, PhD., doc. RNDr. Radoslav Halko, PhD.					
Last change: 12.12.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCAG-023/22		Course title: Optional Seminar in Inorganic Chemistry			
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: 4.					
Educational level: I.					
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					
A	B	C	D	E	FX
42,22	15,56	26,67	0,0	6,67	8,89
Lecturers: RNDr. Jana Chrappová, PhD.					
Last change: 09.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-047/22		Course title: Organic Chemistry 1			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 4.					
Educational level: I.					
Prerequisites: PriF.KAgCh/N-bCXX-010/22 - General Chemistry					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 179					
A	B	C	D	E	FX
15,64	6,7	10,61	10,06	20,11	36,87
Lecturers: RNDr. Viera Poláčková, PhD., doc. RNDr. Peter Magdolen, PhD., Mgr. Henrieta Stankovičová, PhD., doc. Ing. Mária Mečiarová, PhD., Mgr. Tibor Peňaška, PhD., Mgr. Dominika Mravcová, PhD., Mgr. Viktória Némethová, PhD., Mgr. Bernard Mravec, PhD.					
Last change: 22.08.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-012/22		Course title: Perspectives in 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., 3., 5., 7.					
Educational level: I.					
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					
A	B	C	D	E	FX
34,62	38,46	3,85	3,85	3,85	15,38
Lecturers: doc. RNDr. Martin Putala, CSc., doc. RNDr. Oľga Roszkopfová, PhD., prof. RNDr. Ivan Černušák, DrSc., Mgr. Peter Hrobárik, PhD., doc. RNDr. Erik Rakovský, PhD., prof. RNDr. Marian Masár, PhD., doc. Mgr. Peter Polčic, PhD., doc. RNDr. Radoslav Halko, PhD., Mgr. Táňa Sebechlebská, PhD., Ing. Darina Tóthová, CSc., doc. RNDr. Jana Korduláková, PhD., doc. RNDr. Andrej Boháč, CSc.					
Last change: 10.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJCh/N-XXXX-011/21		Course title: Perspectives in 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., 3., 5.					
Educational level: I., 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: 56					
A	B	C	D	E	FX
37,5	32,14	8,93	3,57	0,0	17,86
Lecturers: doc. RNDr. Martin Putala, CSc., prof. RNDr. Ivan Černušák, DrSc., doc. RNDr. Erik Rakovský, PhD., Mgr. Peter Hrobárik, PhD., doc. RNDr. Oľga Rosskopfová, PhD., Mgr. Táňa Sebechlebská, PhD., Ing. Darina Tóthová, CSc., doc. RNDr. Radoslav Halko, PhD., prof. RNDr. Marian Masár, PhD., doc. RNDr. Jana Korduláková, PhD., doc. Mgr. Peter Polčic, PhD., doc. RNDr. Andrej Boháč, CSc.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-003/22		Course title: Perspectives of Biochemistry			
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: 2., 4., 6., 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 36					
A	B	C	D	E	FX
88,89	0,0	0,0	0,0	0,0	11,11
Lecturers: doc. RNDr. Marek Mentel, PhD., prof. RNDr. Katarína Mikušová, DrSc., prof. RNDr. Anton Horváth, CSc., Mgr. Stanislav Huszár, PhD., doc. RNDr. Jana Korduláková, PhD., Ing. Martina Neboháčová, PhD., doc. Mgr. Peter Polčic, PhD., Mgr. Viktória Hodorová, PhD., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD.					
Last change: 19.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-XXXX-010/22		Course title: Perspectives of Biochemistry			
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: 2., 4., 6.					
Educational level: I., 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: 411					
A	B	C	D	E	FX
92,46	0,0	0,0	0,0	0,0	7,54
Lecturers: doc. RNDr. Marek Mentel, PhD., prof. RNDr. Katarína Mikušová, DrSc., prof. RNDr. Anton Horváth, CSc., Mgr. Stanislav Huszár, PhD., doc. RNDr. Jana Korduláková, PhD., Ing. Martina Neboháčová, PhD., doc. Mgr. Peter Polčic, PhD., Mgr. Viktória Hodorová, PhD., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD.					
Last change: 19.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025						
University: Comenius University Bratislava						
Faculty: Faculty of Natural Sciences						
Course ID: PriF.KFR/N-bBXX-002/22		Course title: Perspectives of Current Biology				
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: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 828						
A	ABS	B	C	D	E	FX
76,69	0,0	8,21	4,47	0,85	0,6	9,18
Lecturers: doc. Mgr. Michal Martinka, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Radoslav Beňuš, PhD., prof. RNDr. Ján Turňa, CSc., prof. RNDr. Michal Zeman, DrSc., doc. Mgr. Peter Vďačný, PhD., doc. RNDr. Stanislav Stuchlík, CSc., prof. RNDr. Yveta Gbelská, CSc., doc. RNDr. Tomáš Derka, PhD., RNDr. Boris Klempa, DrSc., Ing. Mgr. Eva Zahradníková, PhD.						
Last change: 01.08.2022						
Approved by: prof. RNDr. Jozef Nosek, DrSc.						

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCXX-025/22		Course title: Physical Chemistry 1			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning					
Number of credits: 6					
Recommended semester: 5.					
Educational level: I.					
Prerequisites: PriF.KAgCh/N-bCXX-010/22 - General Chemistry					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 125					
A	B	C	D	E	FX
24,8	19,2	22,4	12,0	8,8	12,8
Lecturers: doc. RNDr. Ivan Valent, CSc., doc. Mgr. Pavel Neogrády, DrSc., prof. RNDr. Vladimír Kellö, DrSc., prof. RNDr. Juraj Bujdák, DrSc.					
Last change: 08.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-101/22		Course title: Physical Education 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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 1122					
A	B	C	D	E	FX
91,62	0,98	0,27	0,18	0,18	6,77
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-102/22		Course title: Physical Education 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: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 945					
A	B	C	D	E	FX
94,39	0,32	0,11	0,0	0,11	5,08
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-103/22		Course title: Physical Education 3			
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: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 715					
A	B	C	D	E	FX
95,8	0,56	0,84	0,0	0,14	2,66
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-104/22		Course title: Physical Education 4			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 759					
A	B	C	D	E	FX
96,18	0,53	0,13	0,26	0,0	2,9
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-105/22		Course title: Physical Education 5			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 551					
A	B	C	D	E	FX
96,73	0,36	0,0	0,0	0,0	2,9
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-106/22		Course title: Physical Education 6			
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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 484					
A	B	C	D	E	FX
97,73	0,0	0,0	0,0	0,21	2,07
Lecturers: Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF-FMFI.KEF/N- bCXX-016/15		Course title: Physics for the Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 4 / 3 per level/semester: 52 / 39 Form of the course: on-site learning					
Number of credits: 7					
Recommended semester: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 591					
A	B	C	D	E	FX
10,32	9,48	14,55	16,75	26,4	22,5
Lecturers: prof. Dr. Štefan Matejčík, DrSc., doc. RNDr. Juraj Országh, PhD., doc. RNDr. Veronika Medvecká, PhD., doc. RNDr. Peter Papp, PhD., RNDr. Ladislav Moravský, PhD., doc. Mgr. Peter Čermák, PhD.					
Last change: 18.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBo/N-XXXX-003/21		Course title: Plants known and unknown			
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: 3					
Recommended semester: 1., 3., 5.					
Educational level: I., 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: 1141					
A	B	C	D	E	FX
66,7	21,56	6,05	0,0	1,75	3,94
Lecturers: Ing. Mgr. Eva Zahradníková, PhD., doc. Mgr. Katarína Mišíková, PhD., doc. RNDr. Jana Ščevková, PhD.					
Last change: 30.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KRGRR/N- XXXX-002/21		Course title: Practical Geography for Natural Scientists			
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: 3					
Recommended semester: 1., 3., 5.					
Educational level: I., 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: 77					
A	B	C	D	E	FX
85,71	0,0	0,0	0,0	1,3	12,99
Lecturers: Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD., doc. RNDr. František Križan, PhD., doc. RNDr. Eva Rajčáková, CSc., Mgr. Michala Sládeková Madajová, PhD., RNDr. Angelika Švecová, PhD., doc. Mgr. Martin Šveda, PhD., prof. RNDr. Ladislav Tolmáči, PhD., RNDr. Mgr. Anna Tolmáči, PhD., Mgr. Gabriel Zubriczký, PhD.					
Last change: 15.05.2021					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KIHG/N-XXXX-012/21		Course title: Practical Geology for Everyone			
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: 3					
Recommended semester: 1., 3., 5.					
Educational level: I., 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: 386					
A	B	C	D	E	FX
76,68	9,84	4,4	1,55	0,52	6,99
Lecturers: doc. RNDr. Renáta Fľaková, PhD., doc. RNDr. Renáta Adamcová, PhD., prof. RNDr. Roman Pašteka, PhD., prof. RNDr. Martin Bednarik, PhD., doc. RNDr. Dávid Krčmář, PhD., doc. RNDr. Andrej Mojzeš, PhD., RNDr. Ivana Ondrejková, PhD., doc. Mgr. Vladimír Greif, PhD., Mgr. Rudolf Tornyai, PhD., RNDr. Tatiana Durmeková, PhD., Mgr. Martin Zatlakovič, PhD., doc. RNDr. Milan Seman, CSc.					
Last change: 18.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-bCBI-026/22		Course title: Practical for a Bachelor's Thesis in Biochemistry			
Educational activities: Type of activities: practicals Number of hours: per week: 7 per level/semester: 91 Form of the course: on-site learning					
Number of credits: 7					
Recommended semester: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Katarína Mikušová, DrSc.					
Last change: 27.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-049/22		Course title: Practicals in Organic Chemistry (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 5 per level/semester: 65 Form of the course: on-site learning					
Number of credits: 5					
Recommended semester: 4.					
Educational level: I.					
Prerequisites: PriF.KAlCh/N-bCXX-006/22 - Laboratory Technique					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 161					
A	B	C	D	E	FX
45,96	18,63	16,15	3,11	4,97	11,18
Lecturers: RNDr. Viera Poláčková, PhD., PharmDr. Ivica Sigmundová, PhD., Mgr. Bernard Mravec, PhD., Mgr. Lukáš Kerner, PhD., Ing. Tomáš Čarný, PhD., Mgr. Samuel Andrejčák, Mgr. Karin Schniererová					
Last change: 25.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KBCh/N-bCBI-020/22	Course title: Principles of Cell Biology
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: 7.	
Educational level: I.	
Prerequisites:	
Course requirements: There will be regular written tests during the semester. Credits will not be awarded to a student who gets less than 60% of the total marks in these tests. The subject will be completed by oral exam. The evaluation will be awarded as follows: A - excellent results, B - above average work, C - normal reliable work, D - acceptable results, E - results meeting the minimum criteria, Fx - insufficient results (unacceptably weak knowledge corresponding to less than 60% of the required subject range). Scale of assessment (preliminary/final): 0 /100	
Learning outcomes: After completing the course, students will have an overview of the internal organization of prokaryotic and eukaryotic cells and the basic biological processes that take place in individual cell compartments. Emphasis is placed on the importance of biological membranes, intracellular compartmentalization and key molecular processes operating in cells.	
Class syllabus: Complex organization of eukaryotic cell. History and key discoveries of cell biology. Characteristic properties of eukaryotic cells. Comparison of ultrastructure of prokaryotic and eukaryotic cells. Importance of intracellular compartmentalization. The origin of the eukaryotic cell. The role of biological membranes in the eukaryotic cell. Membrane structure and function. Membrane transport. Vector processes bound to membranes. The role of membranes in nerve signal transmission. Cell nucleus. Ultrastructure and dynamics of the cell nucleus, nuclear membrane, nuclear pores, nucleolus. Chromosomes and chromosomal territories. Histones and histone-like proteins. Eukaryotic genome dynamics. Genome replication and repair. Transcription and principles of gene expression control. Levels of gene expression control in prokaryotic and eukaryotic cells. Transcriptional control and post-transcriptional RNA processing. Ribosome translation and function. Ribosome subunits. Ribosomal RNA and protein components of the ribosome. Basic steps in the regulation of proteosynthesis. Intracellular localization of proteosynthesis. Protein distribution in the cell. Posttranslational fate of proteins.	

<p>Mitochondria and chloroplasts. Ultrastructure and function of semiautonomous organelles. Specific roles of mitochondrial and chloroplast membranes. Organelle genomes. Oxidative phosphorylation. Photosynthesis-photophosphorylation.</p> <p>Endoplasmic reticulum, Golgi apparatus. Structure and function. Smooth and rough endoplasmic reticulum, sarcoplasmic reticulum.</p> <p>Vesicular transport. Role in protein distribution and transport in eukaryotic cells. Vacuoles, lysosomes and peroxisomes. Structure, function, biogenesis and distribution. Metabolism. Clinical significance of lysosomes and peroxisomes.</p> <p>Cytoskeleton as a dynamic structure. Cytoskeletal components. Cytoskeleton as a motive system: vesicular transport, cell motility and cell division.</p> <p>Cell surfaces. Cytoplasmic membrane and cell wall. Extracellular matrix. From individual cells to tissues and multicellular organisms.</p> <p>Cells in a social context. Biofilms. Cells as part of tissues. Epithelium and intercellular connections. Quorum sensing. Intercellular communication and cell death.</p>												
<p>Recommended literature:</p> <p>Alberts et al. (2014) Molecular Biology of the Cell, Garland Science.</p> <p>Alberts et al. (2014) Essential Cell Biology, 5th edition, W. W. Norton & Company.</p> <p>Lodish et al. (2016) Molecular Cell Biology. 8th edition, W. H. Freeman and Company.</p>												
<p>Languages necessary to complete the course:</p> <p>Slovak in combination with English (textbooks in English)</p>												
<p>Notes:</p> <p>the course is provided only in the winter semester</p>												
<p>Past grade distribution</p> <p>Total number of evaluated students: 65</p> <table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>FX</th> </tr> </thead> <tbody> <tr> <td>38,46</td> <td>15,38</td> <td>15,38</td> <td>12,31</td> <td>13,85</td> <td>4,62</td> </tr> </tbody> </table>	A	B	C	D	E	FX	38,46	15,38	15,38	12,31	13,85	4,62
A	B	C	D	E	FX							
38,46	15,38	15,38	12,31	13,85	4,62							
<p>Lecturers: prof. RNDr. Jozef Nosek, DrSc., doc. Mgr. Peter Polčic, PhD.</p>												
<p>Last change: 07.10.2022</p>												
<p>Approved by: prof. RNDr. Jozef Nosek, DrSc.</p>												

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: LF-PriF.KBCh/N- bCBI-005/22		Course title: Principles of Functional Biochemistry			
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: 8.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 39					
A	B	C	D	E	FX
10,26	12,82	10,26	17,95	43,59	5,13
Lecturers: doc. RNDr. Monika Ďurfínová, PhD., prof. MUDr. Ladislav Turecký, CSc.					
Last change: 08.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF/N-bCXX-152/22		Course title: Repetitóriium stredoškolskej matematiky			
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 5d Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 102					
A	B	C	D	E	FX
26,47	17,65	7,84	11,76	32,35	3,92
Lecturers: doc. PaedDr. Klára Velmovská, PhD.					
Last change: 17.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-110/22		Course title: River rafting			
Educational activities: Type of activities: other Number of hours: per week: per level/semester: 3d Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 2., 4., 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 224					
A	B	C	D	E	FX
58,93	0,0	0,0	0,0	0,0	41,07
Lecturers: Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-128/22		Course title: Scientific English for Chemistry 1			
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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 71					
A	B	C	D	E	FX
63,38	23,94	1,41	1,41	2,82	7,04
Lecturers: Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD.					
Last change: 03.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-129/22		Course title: Scientific English for Chemistry 2			
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: 5.					
Educational level: I.					
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					
A	B	C	D	E	FX
82,98	12,77	0,0	0,0	2,13	2,13
Lecturers: Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD.					
Last change: 26.09.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KŽFE/N-bBFE-021/22		Course title: Selected chapters from Animal Physiology			
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: 7.					
Educational level: I.					
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
20,0	15,0	22,5	10,0	30,0	2,5
Lecturers: prof. RNDr. Michal Zeman, DrSc., doc. Mgr. Monika Okuliarová, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-bCAG-015/22		Course title: Selected topics of coordination chemistry and stereochemistry			
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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 10					
A	B	C	D	E	FX
50,0	20,0	10,0	20,0	0,0	0,0
Lecturers: doc. RNDr. Jozef Tatiersky, PhD.					
Last change: 04.10.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-bCAL-051/22		Course title: Seminar in Separation Methods			
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 8.					
Educational level: I.					
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: Mgr. Jasna Hradski, PhD., RNDr. Peter Troška, PhD., RNDr. Robert Kubinec, CSc., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD.					
Last change: 07.08.2025					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-142/24		Course title: Slovak for Foreign Students			
Educational activities: Type of activities: seminar Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1., 2., 3., 4., 5., 6..					
Educational level: I.					
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
84,31	9,8	0,0	0,0	0,0	5,88
Lecturers: Mgr. Karin Rózsová Wolfová					
Last change: 05.09.2024					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.ULVG/N-bXXX-003/23		Course title: Soft-skills: Scientific Literacy and Communication in Natural Sciences			
Educational activities: Type of activities: lecture Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 1., 3., 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 190					
A	B	C	D	E	FX
67,89	5,26	5,26	4,74	3,16	13,68
Lecturers: doc. RNDr. Martin Urik, PhD.					
Last change: 30.08.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-108/22		Course title: Summer Physical-Education Training			
Educational activities: Type of activities: training session Number of hours: per week: per level/semester: 5d Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2., 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 225					
A	B	C	D	E	FX
68,0	0,0	0,0	0,0	0,0	32,0
Lecturers: Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCXX-015/22		Course title: Theory of Chemical Bond			
Educational activities: Type of activities: lecture / 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: 5., 7.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 56					
A	B	C	D	E	FX
23,21	23,21	8,93	16,07	21,43	7,14
Lecturers: prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Miroslav Urban, DrSc., Mgr. Michal Repiský, PhD.					
Last change: 29.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KZ/N-XXXX-006/21		Course title: Theory of species			
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., 4., 6.					
Educational level: I., 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: 260					
A	B	C	D	E	FX
51,54	21,15	10,77	2,31	0,77	13,46
Lecturers: doc. Mgr. Peter Vďačný, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-bCXX-046/22		Course title: Toxicology			
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: 8.					
Educational level: I.					
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
70,59	11,76	11,76	0,0	3,92	1,96
Lecturers: Mgr. Henrieta Stankovičová, PhD., RNDr. Katarína Stebelová, PhD.					
Last change: 07.11.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-140/23		Course title: UNICert preparatory course 1			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 82					
A	B	C	D	E	FX
89,02	10,98	0,0	0,0	0,0	0,0
Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., RNDr. Tatiana Slováková, PhD.					
Last change: 01.08.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KJ/N-bXCJ-141/23		Course title: UNICert preparatory course 2			
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: 6.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 76					
A	B	C	D	E	FX
96,05	3,95	0,0	0,0	0,0	0,0
Lecturers: Mgr. Barbara Kordíková, PhD., RNDr. Tatiana Slováková, PhD., Mgr. Aneta Barnes, Mgr. Lenka Jeleňová					
Last change: 01.08.2023					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCFZ-044/24		Course title: Výberový seminár z fyzikálnej chémie			
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: 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 38					
A	B	C	D	E	FX
55,26	31,58	7,89	0,0	0,0	5,26
Lecturers: Mgr. Táňa Sebechlebská, PhD., Mgr. Daniel Furka, PhD., Mgr. Samuel Furka, PhD., doc. Mgr. Pavel Neogrády, DrSc.					
Last change:					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-bCFZ-001/22		Course title: What is Physical and Theoretical 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: 4.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Ivan Černušák, DrSc.					
Last change: 29.07.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-107/22		Course title: Winter Physical-Education Training			
Educational activities: Type of activities: training session Number of hours: per week: per level/semester: 5d Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1., 3., 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 359					
A	B	C	D	E	FX
60,45	0,0	0,0	0,0	0,0	39,55
Lecturers: Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Denisa Strečanská, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KEGD/N-bZEG-055/24		Course title: World, society and development through the eyes of human geography and demography			
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: 3					
Recommended semester: 1., 3.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 90					
A	B	C	D	E	FX
34,44	37,78	15,56	2,22	2,22	7,78
Lecturers: doc. Mgr. Vladimír Bačík, PhD., prof. RNDr. Branislav Bleha, PhD., Mgr. Jaroslav Rusnák, PhD., prof. RNDr. Ján Buček, CSc., doc. Mgr. Marcel Hornák, PhD., Mgr. Juraj Majo, PhD.					
Last change: 11.09.2024					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					

COURSE DESCRIPTION

Academic year: 2024/2025					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KTV/N-bXTV-109/22		Course title: Ďumbier mountain hiking			
Educational activities: Type of activities: other Number of hours: per week: per level/semester: 3d Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 1., 3., 5.					
Educational level: I.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 394					
A	B	C	D	E	FX
65,74	0,0	0,0	0,0	0,0	34,26
Lecturers: Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
Last change: 01.08.2022					
Approved by: prof. RNDr. Jozef Nosek, DrSc.					