Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-020/22	Advanced Inorganic Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
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: 4

A	B	C	D	E	FX
75,0	0,0	0,0	25,0	0,0	0,0

Lecturers: Mgr. Peter Hrobárik, PhD., RNDr. Lukáš Krivosudský, PhD., doc. Mgr. Olivier Monfort, PhD., Mgr. Martin Motola, PhD., prof. RNDr. Gustáv Plesch, DrSc., RNDr. Milan Sýkora, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-044/22	Analytical Chemistry (1)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
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: 35

A	B	C	D	E	FX
14,29	2,86	11,43	14,29	40,0	17,14

Lecturers: doc. RNDr. Róbert Bodor, PhD., doc. RNDr. Radoslav Halko, PhD., doc. RNDr. Andrea Vojs Staňová, PhD.

Last change: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-045/22	Analytical Chemistry (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 5.

Educational level: I.

Prerequisites: PriF.KAlCh/N-bCAL-044/22 - Analytical 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: 27

A	B	C	D	E	FX
14,81	7,41	18,52	18,52	33,33	7,41

Lecturers: doc. RNDr. Andrea Vojs Staňová, PhD., prof. RNDr. Marian Masár, PhD., Ing. Roman Szücs, PhD.

Last change: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-046/22	Analytical Chemistry Practicals (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
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: 70

A	B	C	D	E	FX
28,57	22,86	22,86	15,71	4,29	5,71

Lecturers: RNDr. Peter Troška, PhD., Mgr. Jasna Hradski, PhD., RNDr. Simona Procházková, PhD.

Last change: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-047/22	Analytical Chemistry Practicals (2)

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 6d
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 5.

Educational level: I.

Prerequisites: PriF.KAlCh/N-bCAL-044/22 - Analytical 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: 25

A	B	C	D	E	FX
32,0	24,0	24,0	16,0	4,0	0,0

Lecturers: doc. RNDr. Andrea Vojs Staňová, PhD., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD., doc. RNDr. Róbert Bodor, PhD.

Last change: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-012/22	Bachelor Dissertation in Inorganic Chemistry (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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
50,0	50,0	0,0	0,0	0,0	0,0

Lecturers: RNDr. Jana Chrappová, PhD., prof. RNDr. Jozef Noga, DrSc., prof. RNDr. Gustáv Plesch, DrSc., doc. RNDr. Erik Rakovský, PhD., RNDr. Ján Šimunek, PhD., doc. RNDr. Jozef Tatiersky, PhD., doc. Mgr. Olivier Monfort, PhD., RNDr. Lukáš Krivosudský, PhD., Mgr. Martin Motola, PhD., Mgr. Peter Hrobárik, PhD., RNDr. Milan Sýkora, PhD.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-022/22	Bachelor Dissertation in Inorganic Chemistry (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KAgCh/N-bCAG-020/22 - Advanced Inorganic Chemistry

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 5

A	B	C	D	E	FX
80,0	0,0	0,0	0,0	0,0	20,0

Lecturers: doc. RNDr. Erik Rakovský, PhD., RNDr. Milan Sýkora, PhD., RNDr. Ján Šimunek, PhD., doc. Mgr. Olivier Monfort, PhD., Mgr. Peter Hrobárik, PhD., Mgr. Martin Motola, PhD., doc. RNDr. Jozef Tatiersky, PhD., prof. RNDr. Jozef Noga, DrSc., RNDr. Lukáš Krivosudský, PhD., prof. RNDr. Gustáv Plesch, DrSc., RNDr. Jana Chrappová, PhD.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-015/22	Bachelor Project from Organic and Bioorganic Chemistry (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 13

A	B	C	D	E	FX
76,92	0,0	0,0	7,69	7,69	7,69

Lecturers: prof. Mgr. Radovan Šebesta, DrSc.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-022/22	Bachelor Project from Organic and Bioorganic Chemistry (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KOrCh/N-bCOR-014/22 - Organic Synthesis

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 13

A	B	C	D	E	FX
84,62	7,69	0,0	0,0	0,0	7,69

Lecturers: Mgr. Ambroz Almássy, PhD., RNDr. Viera Poláčková, PhD., doc. RNDr. Martin Putala, CSc., doc. RNDr. Andrej Boháč, CSc., RNDr. Marek Cigáň, PhD., Mgr. Henrieta Stankovičová, PhD., prof. Mgr. Radovan Šebesta, DrSc., Mgr. Peter Šramel, PhD., RNDr. Pavol Tisovský, PhD., Mgr. Juraj Filo, PhD., Mgr. Iveta Kmentová, PhD., doc. RNDr. Peter Magdolen, PhD., Ing. Michal Májek, PhD., doc. Ing. Mária Mečiarová, PhD., Mgr. Tibor Peňaška, PhD., Mgr. Lucia Kováčiková, PhD.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-021/22	Bachelor Project from Organic and Bioorganic Chemistry - Practicals

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 13

A	B	C	D	E	FX
84,62	0,0	0,0	7,69	0,0	7,69

Lecturers: Mgr. Ambroz Almássy, PhD., RNDr. Viera Poláčková, PhD., doc. RNDr. Martin Putala, CSc., RNDr. Marek Cigáň, PhD., Mgr. Henrieta Stankovičová, PhD., prof. Mgr. Radovan Šebesta, DrSc., Mgr. Peter Šramel, PhD., RNDr. Pavol Tisovský, PhD., Mgr. Juraj Filo, PhD., Mgr. Iveta Kmentová, PhD., doc. RNDr. Peter Magdolen, PhD., Ing. Michal Májek, PhD., doc. Ing. Mária Mečiarová, PhD., Mgr. Tibor Peňaška, PhD.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-021/22	Bachelor Thesis in Biochemistry (1)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 1 / 2 **per level/semester:** 14 / 28
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: 5.

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: 24

A	B	C	D	E	FX
95,83	0,0	0,0	0,0	0,0	4,17

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

Last change: 07.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-022/22	Bachelor Thesis in Biochemistry (2)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 6.

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: 24

A	B	C	D	E	FX
79,17	8,33	0,0	0,0	8,33	4,17

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-024/22	Bachelor Thesis in Physical Chemistry (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 6

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. Ing. Marián Janek, PhD., doc. RNDr. Monika Jerigová, PhD., doc. RNDr. Ivan Valent, CSc., prof. Ing. Dušan Velič, DrSc., prof. RNDr. Juraj Bujdák, DrSc., RNDr. Dušan Lorenc, PhD., Mgr. Táňa Sebechlebská, PhD., prof. RNDr. Vladimír Kellö, DrSc.

Last change: 18.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-038/22	Bachelor Thesis in Physical Chemistry (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KAgCh/N-bCAG-008/22 - The Chemistry of Nanomaterials

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. Ivan Valent, CSc., prof. Ing. Dušan Velič, DrSc., prof. RNDr. Juraj Bujdák, DrSc., RNDr. Eva Noskovičová, PhD., Mgr. Daniel Furka, PhD., Mgr. Samuel Furka, PhD., doc. Ing. Marián Janek, PhD., doc. RNDr. Monika Jerigová, PhD., Mgr. Táňa Sebechlebská, PhD.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-029/22	Bachelor Thesis in Theoretical and Computational Chemistry (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 1

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. Ing. Tomáš Bučko, PhD., prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Vladimír Kellö, DrSc., doc. Mgr. Pavel Neogrády, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc.

Last change: 22.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-040/22	Bachelor Thesis in Theoretical and Computational Chemistry (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KFTCh/N-bCFZ-027/22 - Programming in Chemistry

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. Ing. Tomáš Bučko, PhD., doc. Mgr. Pavel Neogrády, DrSc., prof. RNDr. Ivan Černušák, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Vladimír Kellö, DrSc.

Last change: 29.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-039/22	Bachelor thesis in analytical chemistry (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 8

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Róbert Bodor, PhD., RNDr. Jaroslav Blaško, PhD., doc. RNDr. Róbert Góra, PhD., RNDr. Renáta Górová, PhD., doc. RNDr. Radoslav Halko, PhD., Mgr. Jasna Hradski, PhD., prof. PharmDr. Josef Jampílek, PhD., RNDr. Helena Jurdáková, PhD., RNDr. Robert Kubinec, CSc., prof. RNDr. Marian Masár, PhD., RNDr. Csilla Mišľanová, PhD., RNDr. Simona Procházková, PhD., Ing. Roman Szücs, PhD., RNDr. Peter Troška, PhD., doc. RNDr. Andrea Vojs Staňová, PhD., RNDr. Katarína Chovancová, PhD.

Last change: 30.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-050/22	Bachelor thesis in analytical chemistry (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KAlCh/N-bCAL-043/22 - Introduction to Bioanalytical Chemistry

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 9

A	B	C	D	E	FX
66,67	11,11	11,11	11,11	0,0	0,0

Lecturers: doc. RNDr. Róbert Bodor, PhD., RNDr. Jaroslav Blaško, PhD., doc. RNDr. Róbert Góra, PhD., RNDr. Renáta Górová, PhD., doc. RNDr. Radoslav Halko, PhD., Mgr. Jasna Hradski, PhD., prof. PharmDr. Josef Jampílek, PhD., RNDr. Helena Jurdáková, PhD., RNDr. Robert Kubinec, CSc., prof. RNDr. Marian Masár, PhD., RNDr. Csilla Mišľanová, PhD., RNDr. Simona Procházková, PhD., Ing. Roman Szücs, PhD., RNDr. Peter Troška, PhD., doc. RNDr. Andrea Vojs Staňová, PhD., RNDr. Katarína Chovancová, PhD.

Last change: 30.09.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-039/22	Bachelor's Thesis in Nuclear chemistry and Radioecology (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 5

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Eva Viglašová, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-040/22	Bachelor's Thesis in Nuclear chemistry and Radioecology (2)

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 5 / 2 **per level/semester:** 70 / 28
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.

Prerequisites: PriF.KJCh/N-bCJD-028/22 - Nuclear chemistry 2 and PriF.KJCh/N-bCJD-039/22 - Bachelor's Thesis in Nuclear chemistry and Radioecology (1)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 5

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Michal Galamboš, PhD., doc. RNDr. Eva Viglašová, PhD.

Last change: 10.10.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
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:	

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAn/N-XXXX-005/21	Bioarchaeology

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 1110

A	B	C	D	E	FX
75,23	11,17	5,95	2,79	0,81	4,05

Lecturers: doc. RNDr. Radoslav Beňuš, PhD., Mgr. Silvia Bodoriková, PhD., prof. Mgr. Viktor Černý, Dr.

Last change: 07.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCXX-018/22	Biochemistry (1)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
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: 80

A	B	C	D	E	FX
16,25	10,0	17,5	16,25	17,5	22,5

Lecturers: prof. RNDr. Marta Kollárová, DrSc., doc. RNDr. Jana Korduláková, PhD., Mgr. Júlia Zemanová, PhD., Mgr. Andrea Cillingová, PhD., Mgr. Petra Chovančíková, PhD.

Last change: 12.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCXX-019/22	Biochemistry (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

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: 32

A	B	C	D	E	FX
31,25	15,63	9,38	9,38	18,75	15,63

Lecturers: prof. RNDr. Marta Kollárová, DrSc., prof. RNDr. Katarína Mikušová, DrSc., Mgr. Júlia Zemanová, PhD., Mgr. Andrea Cillingová, PhD., Mgr. Petra Chovančíková, PhD.

Last change: 15.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCXX-020/22	Biochemistry Practicals

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
Form of the course: on-site learning

Number of credits: 5

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: 78

A	B	C	D	E	FX
24,36	33,33	25,64	12,82	0,0	3,85

Lecturers: doc. Mgr. Peter Polčic, PhD.

Last change: 12.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-019/22	Biochemistry and Cell Biology Laboratory

Educational activities:
Type of activities: practicals
Number of hours:
per week: 8 **per level/semester:** 112
Form of the course: on-site learning

Number of credits: 8

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: 23

A	B	C	D	E	FX
0,0	21,74	30,43	17,39	30,43	0,0

Lecturers: Ing. Martina Neboháčová, PhD., Mgr. Filip Brázdovič, PhD., Mgr. Stanislav Huszár, PhD., doc. RNDr. Igor Zeman, PhD., Mgr. Júlia Zemanová, PhD.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCXX-009/22	Bioinorganic Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
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: 11

A	B	C	D	E	FX
27,27	27,27	36,36	0,0	0,0	9,09

Lecturers: RNDr. Lukáš Krivosudský, PhD., RNDr. Marcel Zámocký, DrSc.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-041/22	Biophysical Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
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: 24

A	B	C	D	E	FX
45,83	33,33	16,67	0,0	0,0	4,17

Lecturers: doc. RNDr. Ivan Valent, CSc.

Last change: 04.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFR/N-bBXX-068/22	Cell Biology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 4

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: 536

A	B	C	D	E	FX
12,5	19,03	24,63	18,47	15,3	10,07

Lecturers: doc. Mgr. Michal Martinka, PhD., prof. RNDr. Helena Bujdáková, CSc., prof. Mgr. Iveta Herichová, PhD., 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., Mgr. Monika Bathóová, PhD., Mgr. Dominik Kostoláni, PhD.

Last change: 15.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCXX-002/22	Chemical Calculation (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 188

A	B	C	D	E	FX
13,83	15,96	18,09	17,02	14,36	20,74

Lecturers: doc. RNDr. Jozef Tatiersky, PhD., doc. Mgr. Olivier Monfort, PhD.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-005/22	Chemical Calculation (2)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 33

A	B	C	D	E	FX
45,45	9,09	9,09	12,12	6,06	18,18

Lecturers: doc. RNDr. Jozef Tatiersky, PhD., RNDr. Ján Šimunek, PhD.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCXX-007/22	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: 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: 37

A	B	C	D	E	FX
97,3	0,0	0,0	0,0	0,0	2,7

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-043/22	Chemical Legislation

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

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: 8

A	B	C	D	E	FX
50,0	0,0	12,5	12,5	0,0	25,0

Lecturers: doc. RNDr. Oľga Rosskopfová, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-017/22	Chemical Modeling

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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
55,17	27,59	0,0	6,9	3,45	6,9

Lecturers: prof. RNDr. Ivan Černušák, DrSc., RNDr. Lukáš Félix Pašteka, PhD., Mgr. Andrea Martinická, PhD., Ing. Michal Májek, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-022/22	Chemical Structure

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 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: 23

A	B	C	D	E	FX
39,13	26,09	21,74	8,7	4,35	0,0

Lecturers: prof. RNDr. Vladimír Kellö, DrSc., prof. RNDr. Ivan Černušák, DrSc.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-016/22	Colloquium in Inorganic Chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 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., RNDr. Lukáš Krivosudský, PhD.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-132/22	ESP 1/English for Specific Purposes

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 355

A	B	C	D	E	FX
70,14	16,06	6,48	1,97	1,97	3,38

Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slováková, PhD., Mgr. Simona Tomášková, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-133/22	ESP 2/English for Specific Purposes

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 234

A	B	C	D	E	FX
83,76	11,54	2,14	0,85	0,43	1,28

Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slováková, PhD., Mgr. Simona Tomášková, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-134/22	ESP 3/English for Specific Purposes

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 288

A	B	C	D	E	FX
81,6	12,15	2,43	0,0	1,04	2,78

Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slováková, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-135/22	ESP 4/English for Specific Purposes

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 194

A	B	C	D	E	FX
85,05	9,28	3,61	0,52	0,52	1,03

Lecturers: PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., PhDr. Oľga Pažitková, CSc., RNDr. Tatiana Slováková, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-024/22	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: 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: 11

A	B	C	D	E	FX
36,36	45,45	0,0	9,09	0,0	9,09

Lecturers: Mgr. Petra Chovančíková, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-025/22	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: 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: prof. RNDr. Katarína Mikušová, DrSc.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-022/22	Elective Practice from Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 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: 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., 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF-FMFI.KMANM/N-bCXX-017/15	Elective Seminar in Mathematics

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 283

A	B	C	D	E	FX
53,71	17,67	6,36	4,59	8,48	9,19

Lecturers: doc. PaedDr. Klára Velmovská, PhD., PaedDr. Barbora Gejdošová, PaedDr. Ladislav Janiga

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-037/22	Elective Seminar in Nuclear chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 14
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: 38

A	B	C	D	E	FX
86,84	5,26	2,63	2,63	0,0	2,63

Lecturers: doc. RNDr. Eva Viglašová, PhD., RNDr. Katarína Cifraničová

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-024/22	Elective Seminar on Mechanisms of Organic Reactions

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 14
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 3.

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: 16

A	B	C	D	E	FX
37,5	18,75	12,5	18,75	6,25	6,25

Lecturers: doc. RNDr. Martin Putala, CSc., Mgr. Ambroz Almássy, PhD., Ing. Michal Májek, PhD., Mgr. Peter Šramel, PhD.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-001/22	Elective Seminar on Organic Chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 134

A	B	C	D	E	FX
39,55	15,67	11,94	8,96	6,72	17,16

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.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-008/22	Elective Seminar on Organic Synthesis

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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
49,18	6,56	11,48	9,84	6,56	16,39

Lecturers: doc. Ing. Mária Mečiarová, PhD., doc. RNDr. Peter Magdolen, PhD., Mgr. Henrieta Stankovičová, PhD.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCXX-043/22	Environmental Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 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: 1

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Radoslav Halko, PhD., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KGe/N-bBGE-012/22	Evolutionary Biology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

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: 392

A	B	C	D	E	FX
7,14	19,64	22,7	21,94	20,92	7,65

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-038/22	Exercise for Bachelor's Thesis in Nuclear chemistry and Radioecology

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 5

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Michal Galamboš, PhD., doc. RNDr. Eva Viglašová, PhD., Ing. Darina Tóthová, CSc., doc. RNDr. Oľga Rosskopfová, PhD., RNDr. Ondrej Šauša, CSc., RNDr. David Pavel Královič, RNDr. Dominik Juračka, Ing. Helena Švajdlenková, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-042/22	Exercise in Nuclear chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
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: 95

A	B	C	D	E	FX
28,42	27,37	22,11	11,58	8,42	2,11

Lecturers: RNDr. David Pavel Královič, RNDr. Matej Krivošík, PhD.

Last change: 28.03.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-026/22	Exercise in Physical Chemistry (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 3.

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: 75

A	B	C	D	E	FX
86,67	4,0	0,0	1,33	1,33	6,67

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-019/22	Exercise in Physical Chemistry (2)

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 6d
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 5.

Educational level: I.

Prerequisites: PriF.KFTCh/N-bCXX-026/22 - Exercise in Physical 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: 24

A	B	C	D	E	FX
75,0	16,67	0,0	4,17	0,0	4,17

Lecturers: doc. RNDr. Ivan Valent, CSc., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD.

Last change: 29.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-037/22	Exercises for a Bachelor's Thesis in Physical Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 6

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Ivan Valent, CSc., prof. Ing. Dušan Velič, DrSc., prof. RNDr. Juraj Bujdák, DrSc., RNDr. Eva Noskovičová, PhD., Mgr. Daniel Furka, PhD., Mgr. Samuel Furka, PhD., doc. Ing. Marián Janek, PhD., doc. RNDr. Monika Jerigová, PhD., Mgr. Táňa Sebechlebská, PhD.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-043/22	Exercises for a Bachelor's Thesis in Theoretical and Computational Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 2

A	B	C	D	E	FX
50,0	0,0	0,0	0,0	0,0	50,0

Lecturers: doc. Ing. Tomáš Bučko, PhD., doc. Mgr. Pavel Neogrády, DrSc., prof. RNDr. Ivan Černušák, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Vladimír Kellö, DrSc.

Last change: 22.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-136/22	Fachdeutsch in Naturwissenschaften 1

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 15

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-137/22	Fachdeutsch in Naturwissenschaften 2

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 4

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF/N-bCXX-019/22	Fundamentals of Physics for Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 2 **per level/semester:** 14 / 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 1.

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: 45					
A	B	C	D	E	FX
20,0	33,33	24,44	13,33	4,44	4,44
Lecturers: doc. RNDr. Tomáš Roch, Dr. techn.					
Last change: 18.10.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KGe/N-bCXX-008/22	General Biology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 203

A	B	C	D	E	FX
59,11	9,85	10,34	10,34	7,39	2,96

Lecturers: prof. RNDr. Ľubomír Tomáška, DrSc.

Last change: 14.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCXX-010/22	General Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

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: 122

A	B	C	D	E	FX
12,3	16,39	26,23	22,95	5,74	16,39

Lecturers: prof. RNDr. Jozef Noga, DrSc., RNDr. Ján Šimunek, PhD., Mgr. Martin Motola, PhD., RNDr. Lukáš Krivosudský, PhD.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KGe/N-bBXX-037/22	Genetics

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 4

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: 142

A	B	C	D	E	FX
7,04	5,63	16,2	23,24	28,17	19,72

Lecturers: doc. RNDr. Eliška Gálová, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Filip Červenák, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Katarína Procházková, PhD.

Last change: 22.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KGe/N-XXXX-004/21	Genetics for everyone

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 1090

A	B	C	D	E	FX
92,84	0,92	0,0	0,0	0,0	6,24

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: 15.05.2021

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KRGRR/N-XXXX-001/21	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:** 14 / 14
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: 88

A	B	C	D	E	FX
81,82	4,55	5,68	1,14	1,14	5,68

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., 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KGP/N-XXXX-007/21	Geology in Nutshell

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 2 **per level/semester:** 14 / 28
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: 44

A	B	C	D	E	FX
86,36	0,0	0,0	0,0	11,36	2,27

Lecturers: prof. RNDr. Roman Aubrecht, Dr., prof. Mgr. Natália Hlavatá Hudáčková, PhD., doc. RNDr. Jozef Hók, CSc., prof. RNDr. Michal Kováč, DrSc., RNDr. Alexander Lačný, PhD., doc. RNDr. Jana Fridrichová, PhD., RNDr. Ondrej Nemec, PhD.

Last change: 20.01.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KPl/N-XXXX-009/21	Global Environmental Issues

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 555

A	B	C	D	E	FX
90,27	0,0	0,54	0,0	0,0	9,19

Lecturers: doc. RNDr. Katarína Pavličková, CSc., prof. RNDr. Pavel Dlapa, PhD., RNDr. Martina Zvaríková, PhD., doc. RNDr. Ľubomír Jurkovič, PhD.

Last change: 09.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KEM/N-bXXX-001/19	Green University 1

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
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: 150

A	B	C	D	E	FX
91,33	0,0	0,0	0,0	0,0	8,67

Lecturers: RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., RNDr. Hubert Žarnovičan, PhD., Mgr. Martin Šebesta, PhD.

Last change: 11.02.2020

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KEM/N-bXXX-002/19	Green University 2

Educational activities:
Type of activities: practicals / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
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: 39

A	B	C	D	E	FX
87,18	0,0	0,0	0,0	0,0	12,82

Lecturers: RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD., RNDr. Hubert Žarnovičan, PhD.

Last change: 11.02.2020

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCXX-008/22	Identification and Quantification of Chemical Substances

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 1

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

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., RNDr. Csilla Mišľanová, PhD.

Last change: 30.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KMV/N-bBXX-030/22	Immunology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-036/22	Information systems in nuclear fields

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 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: 4

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Ing. Helena Švajdlenková, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-017/22	Inorganic Chemistry (1)

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 50

A	B	C	D	E	FX
12,0	20,0	24,0	20,0	12,0	12,0

Lecturers: RNDr. Lukáš Krivosudský, PhD., prof. RNDr. Jozef Noga, DrSc.

Last change: 06.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-018/22	Inorganic Chemistry (2)

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 4.

Educational level: I.

Prerequisites: PriF.KAgCh/N-bCAG-017/22 - Inorganic 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: 22

A	B	C	D	E	FX
18,18	9,09	31,82	13,64	4,55	22,73

Lecturers: RNDr. Lukáš Krivosudský, PhD., Mgr. Martin Motola, PhD., doc. RNDr. Jozef Tatiersky, PhD., prof. RNDr. Jozef Noga, DrSc., Mgr. Jela Nociarová, PhD.

Last change: 04.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-043/22	Introduction to Bioanalytical Chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 5.

Educational level: I.

Prerequisites: PriF.KAlCh/N-bCAL-044/22 - Analytical 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: 7

A	B	C	D	E	FX
42,86	57,14	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Marian Masár, PhD., Ing. Roman Szücs, PhD., Mgr. Jasna Hradski, PhD.

Last change: 30.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-032/22	Introduction to Continuous and Flow Analysis

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 0

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Róbert Bodor, PhD., doc. RNDr. Radoslav Halko, PhD.

Last change: 30.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-037/22	Introduction to Mass Spectrometry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N_bCFZ-042/22	Introduction to Mathematical Processing of Chemical Data

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 2

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. Mgr. Michal Pitoňák, PhD., Ing. Roman Szücs, PhD.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bBCH-041/21	Introduction to Radiobiology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2., 4., 6.

Educational level: I.

Prerequisites:

Course requirements:
The applicant successful graduation of the course is to obtain minimally 50 % of points of the final examination: seminar work (50%) + examination (50%). For the grade A (excellent) it is necessary to obtain at least 92–100%, to obtain the grade B (very good) at least 84–91%, for the grade C (good) at least 76–83%, for the grade D (satisfactory) at least 68– 75% and for E rating (adequate) at least 60–67%. A rating below 60% is rated as FX (insufficient).

Learning outcomes:
Course covers the physical and chemical basics of radiobiology, cell- organism interaction with radiation and radiation damage repair, the applications of ionizing and non-ionizing radiation in medicine. Within the frame of the course is the visit of workplace focused on radiobiology. Students who enroll in this course can benefit from the following: physical basics of radiobiology, mechanisms of effects of ionizing radiation on living organisms and cell repair mechanisms, radiation-caused diseases and therapy, radiation syndromes, protection of the organisms against radiation damage, the usage of ionizing and non-ionizing radiation in medicine, the effects of solar UV radiation and protection.

Class syllabus:
1. The subject and historical overview of radiobiology, radiation sensitivity of biological species. 2. Physical basics of radiobiology, quantities and terminology. 3. DNA- and cell damage produced by ionizing radiation, biological effect vs. dose curves. 4. Modification of cell damage by radiation, radioprotectors and radiation sensitivity. 5. Repair of cell damage induced by radiation. 6. Molecular radiation biology and biochemistry, the effect of ionizing radiation on metabolism. 7. Radiation syndroms (sickness) and their modulation: bone marrow syndrom, gastrointestinal syndrom, central nervous system syndrom. 8. Radiation sicknesses: acute and chronic cases, their classification, development, diagnosis, therapy. 9. Radiation induced tissue damage, radiation effect on embryo and fetus. 10. Radiation application and incorporated radionuclides in medicíne. Radiotherapy - external and internal. 11. Theoretical conception of mechanisms involved in ionizing radiation systemic effects. 12. After-effects of ionizing radiation: somatic and genetic, limit doses, ALARA, radiation-induced cancer, risk factors, dose response.

Recommended literature:

•Podgorsak E.B.: Radiation Oncology Physics: A Handbook for Teachers and Students. Vienna, IAEA Publication, 2005. ISBN: 92-0-107304-6. •Pöschl, M., Nollet, L.: Radionuclide Concentrations in Food and the Environment. Boca Raton - London - New York : CRC Press, Taylor & Francis Group, 2007. ISBN 0-8493-3594-9. •Bailey D.L., Humm J.L., Todd-Pokropek A., van Aswegen A.: Radiation Medicine Physics: A Handbook for Teachers and Students. Vienna, IAEA Publication, 2014. ISBN: 978-92-0-143810-2.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 10

A	B	C	D	E	FX
60,0	0,0	0,0	10,0	10,0	20,0

Lecturers: Ing. Darina Tóthová, CSc.

Last change: 30.03.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bBCH-040/21	Introduction to Radiochemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 1., 3., 5.

Educational level: I.

Prerequisites:

Course requirements:
The applicant successful graduation of the course is to obtain minimally 60 % of points of the final examination: seminar work (50%) + examination (50%). For the grade A (excellent) it is necessary to obtain at least 92–100%, to obtain the grade B (very good) at least 84–91%, for the grade C (good) at least 76–83%, for the grade D (satisfactory) at least 68– 75% and for E rating (adequate) at least 60–67%. A rating below 60% is rated as FX (insufficient).

Learning outcomes:
Radiochemistry or nuclear chemistry is the study of radiation from an atomic and molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties. Based on this students how to use radioactivity as a tool for chemically related research and related fields (for example material science, biochemistry, and medicine). The course teaches students fundamental radiochemical methods for qualitative and quantitative analysis of radionuclides in various media. The principles for the detection of radioactive radiation and material will be thoroughly covered.

Class syllabus:
1.-2. Nuclear chemistry fundamentals: nuclear decay, nuclear properties, and kinetics of nuclear decay. 3. Interaction with matter. 4.-5. Production of radionuclides. 6. Nuclear reactions and nuclear fission. 7. Nuclear Analytical Techniques. 8. Detection of radiation and measurement techniques. 9. Radiation therapy. 10. Radiotracers. 11. Radiochemical separation techniques. 12.-13. Nuclear energy – nuclear power plants, nuclear fuel cycle, nuclear wastes.

Recommended literature:
•Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg (2006). Modern Nuclear Chemistry. John Wiley & Sons, Inc. ISBN:9780471115328. •József Kónya, Noémi M. Nagy (2012). Nuclear and Radiochemistry. ELSEVIER. ISBN 978-0-12-391430-9. DOI https://doi.org/10.1016/C2011-0-06943-0 •Gregory Choppin (2013) Radiochemistry and Nuclear Chemistry. Elsevier Books. EAN: 9780124058972.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 10

A	B	C	D	E	FX
90,0	10,0	0,0	0,0	0,0	0,0

Lecturers: Ing. Helena Švajdlenková, PhD.

Last change: 13.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bENS-053/21	Introduction to Radioecology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2., 4., 6.

Educational level: I.

Prerequisites:

Course requirements:
The applicant successful graduation of the course is to obtain minimally 60 % of points of the final examination: seminar work (50%) + examination (50%). For the grade A (excellent) it is necessary to obtain at least 92–100%, to obtain the grade B (very good) at least 84–91%, for the grade C (good) at least 76–83%, for the grade D (satisfactory) at least 68– 75% and for E rating (adequate) at least 60–67%. A rating below 60% is rated as FX (insufficient).

Learning outcomes:
The student will acquire the knowledge about the origin and sources of ecologically important radionuclides, which are found in various segments of the environment. Radionuclides migration between individual segments, as well as their elimination. A general view about population radiation exposure the from primordial radionuclides to the nuclear facilities operation and events at facilities. The output is also a basic overview of the minimum legal literacy in the field of peaceful use of nuclear energy.

Class syllabus:
1. Radiation. 2. Human and environment. 3.-4. Radionuclides and their chemistry 5. Dosimetry. 6.7. Distribution of radioactive substances in environment. 8. Effects of radiation and population dosage. 9. Nuclear industry and environment. 10. Processing, disposal, and storage of radioactive waste from an environmental point of view. 11. Nuclear facilities accidents. 12. Radiation accidents, nuclear bombing, and nuclear weapons tests. 13. Radiation protection.

Recommended literature:
•Sparks, L. D., Environmental Soil Chemistry, ACADEMIC PRESS, Delaware, 2003, ISBN: 0-12-656446-9. •Holm, E. Radioecology. LUND UNIVERSITY, Lund, Sweden, 1994, ISBN: 978-981-4534-28-4. • IAEA., The Atom, Environment and Sustainable Development •IAEA., Country nuclear power profiles-Slovakia. •IAEA [online publications] https://www.iaea.org/publications.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 17

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Eva Viglašová, PhD.

Last change: 13.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-019/22	Lab Practical in Inorganic Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
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: 43

A	B	C	D	E	FX
41,86	20,93	13,95	2,33	2,33	18,6

Lecturers: RNDr. Jana Chrappová, PhD., Mgr. Dominika Lacušková, RNDr. Zuzana Matkovičová, PhD.

Last change: 09.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCXX-006/22	Laboratory Technique

Educational activities:
Type of activities: practicals
Number of hours:
per week: 4 **per level/semester:** 56
Form of the course: on-site learning

Number of credits: 4

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: 121

A	B	C	D	E	FX
57,02	30,58	6,61	0,83	0,83	4,13

Lecturers: doc. RNDr. Radoslav Halko, PhD., RNDr. Jana Chrappová, PhD., doc. RNDr. Monika Jerigová, PhD., RNDr. Csilla Mišľanová, PhD., RNDr. Viera Poláčková, PhD., Mgr. Henrieta Stankovičová, PhD., RNDr. Simona Procházková, PhD., RNDr. Eva Noskovičová, PhD., Mgr. Peter Šramel, PhD., Mgr. Tibor Peňaška, PhD., RNDr. Zuzana Matkovičová, PhD., Mgr. Dominika Lacušková

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-138/22	Latin

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 285

A	B	C	D	E	FX
63,16	15,44	7,02	3,86	2,46	8,07

Lecturers: Mgr. Ivan Lábaj, PhD., RNDr. Tatiana Slováková, PhD.

Last change: 07.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KPl/N-XXXX-008/21	Man as a part of the nature

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 954

A	B	C	D	E	FX
90,04	0,1	0,0	0,0	0,1	9,75

Lecturers: 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF/N-bCXX-150/22	Mathematics for the Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 3 **per level/semester:** 56 / 42
Form of the course: on-site learning

Number of credits: 7

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: 132

A	B	C	D	E	FX
11,36	9,09	8,33	18,18	28,03	25,0

Lecturers: Mgr. Zuzana Šinská, PaedDr. Ladislav Janiga, PaedDr. Barbora Gejdošová, Mgr. Karolína Šromeková, PhD.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bBXX-015/22	Medicinal Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 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: 639

A	B	C	D	E	FX
21,75	12,36	15,02	11,58	20,03	19,25

Lecturers: doc. RNDr. Andrej Boháč, CSc.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-015/22	Methods in Biochemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
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: 44

A	B	C	D	E	FX
29,55	11,36	22,73	9,09	18,18	9,09

Lecturers: Ing. Pavol Sulo, CSc., Mgr. Stanislav Huszár, PhD.

Last change: 12.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-023/22	Methods in Chemical Research

Educational activities:
Type of activities: lecture
Number of hours:
per week: 1 **per level/semester:** 14
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: 2

A	B	C	D	E	FX
0,0	50,0	50,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Radoslav Halko, PhD., doc. RNDr. Martin Putala, CSc., doc. RNDr. Erik Rakovský, PhD., prof. Ing. Dušan Velič, DrSc.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-023/22	Methods in Molecular and Cell Biology

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
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: 6.

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: 62

A	B	C	D	E	FX
48,39	24,19	17,74	6,45	3,23	0,0

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

Last change: 07.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KMV/N-bCXX-009/22	Microbiology and Virology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
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: 119

A	B	C	D	E	FX
24,37	26,89	21,85	12,61	10,92	3,36

Lecturers: prof. RNDr. Helena Bujdáková, CSc., prof. RNDr. Yvetta 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.

Last change: 12.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-021/22	Molecular Spectroscopy

Educational activities:
Type of activities: practicals / lecture / seminar
Number of hours:
per week: 1 / 2 / 2 **per level/semester:** 14 / 28 / 28
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: 34

A	B	C	D	E	FX
35,29	20,59	26,47	5,88	5,88	5,88

Lecturers: prof. Mgr. Radovan Šebesta, DrSc., Mgr. Juraj Filo, PhD., RNDr. Jaroslav Blaško, PhD., doc. RNDr. Andrea Vojs Staňová, PhD., RNDr. Marek Cigáň, PhD., Mgr. Ambroz Almássy, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-050/22	Molecular Spectroscopy

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 1

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	100,0	0,0

Lecturers: RNDr. Marek Cigáň, PhD., prof. Mgr. Radovan Šebesta, DrSc., Mgr. Juraj Filo, PhD., Mgr. Ambroz Almássy, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bBXX-026/22	Natural Compounds

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 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: 31

A	B	C	D	E	FX
32,26	32,26	9,68	9,68	3,23	12,9

Lecturers: Mgr. Ambroz Almássy, PhD.

Last change: 14.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-023/22	New Trends in Organic Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

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: 10

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.

Last change: 21.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.LPM/N-bLPM-049/22	Nové trendy v materiálovej chémii

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 0

A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: RNDr. Milan Sýkora, PhD., 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-029/22	Nuclear chemistry 1

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

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: 65

A	B	C	D	E	FX
20,0	7,69	15,38	15,38	24,62	16,92

Lecturers: prof. RNDr. Michal Galamboš, PhD., doc. RNDr. Eva Viglašová, PhD.

Last change: 17.04.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-028/22	Nuclear chemistry 2

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 5.

Educational level: I.

Prerequisites: PriF.KJCh/N-bCJD-029/22 - Nuclear 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: 5

A	B	C	D	E	FX
60,0	20,0	0,0	0,0	20,0	0,0

Lecturers: prof. RNDr. Michal Galamboš, PhD., doc. RNDr. Eva Viglašová, PhD.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-024/22	Numerical mathematics

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 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: 16

A	B	C	D	E	FX
75,0	12,5	12,5	0,0	0,0	0,0

Lecturers: doc. Mgr. Pavel Neogrády, DrSc., doc. Mgr. Michal Pitoňák, PhD.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCXX-018/22	Optional Seminar in Analytical Chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 14
Form of the course: on-site learning

Number of credits: 1

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: 30

A	B	C	D	E	FX
90,0	10,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Róbert Bodor, PhD., doc. RNDr. Radoslav Halko, PhD.

Last change: 12.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-023/22	Optional Seminar in Inorganic Chemistry

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 27

A	B	C	D	E	FX
44,44	14,81	18,52	0,0	11,11	11,11

Lecturers: RNDr. Jana Chrappová, PhD.

Last change: 09.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-047/22	Organic Chemistry 1

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 2.

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: 67

A	B	C	D	E	FX
23,88	8,96	13,43	8,96	7,46	37,31

Lecturers: Mgr. Henrieta Stankovičová, PhD., doc. Ing. Mária Mečiarová, PhD.

Last change: 22.08.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-048/22	Organic Chemistry 2

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 3., 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: 36

A	B	C	D	E	FX
25,0	16,67	16,67	13,89	13,89	13,89

Lecturers: Mgr. Ambroz Almássy, PhD., doc. RNDr. Martin Putala, CSc., Ing. Michal Májek, PhD., Mgr. Peter Šramel, PhD.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCOR-014/22	Organic Synthesis

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

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
41,67	33,33	8,33	8,33	0,0	8,33

Lecturers: doc. RNDr. Peter Magdolen, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-012/22	Perspectives in Chemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 18

A	B	C	D	E	FX
27,78	50,0	5,56	5,56	5,56	5,56

Lecturers: doc. RNDr. Martin Putala, CSc., doc. RNDr. Oľga Rosskopfová, PhD., prof. Ing. Dušan Velič, DrSc., prof. RNDr. Ivan Černušák, DrSc., RNDr. Milan Sýkora, PhD., Mgr. Peter Hrobárik, PhD., doc. RNDr. Erik Rakovský, PhD., RNDr. Marek Cigáň, PhD., prof. RNDr. Marian Masár, PhD., doc. Mgr. Peter Polčic, PhD., doc. RNDr. Radoslav Halko, PhD., doc. RNDr. Andrej Boháč, CSc.

Last change: 10.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-XXXX-011/21	Perspectives in Chemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 36

A	B	C	D	E	FX
27,78	41,67	13,89	2,78	0,0	13,89

Lecturers: RNDr. Marek Cigáň, PhD., doc. RNDr. Martin Putala, CSc., prof. Ing. Dušan Velič, DrSc., prof. RNDr. Ivan Černušák, DrSc., doc. RNDr. Erik Rakovský, PhD., Mgr. Peter Hrobárik, PhD., doc. RNDr. Oľga Rosskopfová, PhD.

Last change: 07.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-003/22	Perspectives of Biochemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 8

A	B	C	D	E	FX
87,5	0,0	0,0	0,0	0,0	12,5

Lecturers: doc. RNDr. Marek Mentel, PhD., Mgr. Filip Brázdovič, PhD., Mgr. Andrea Cillingová, PhD., prof. RNDr. Anton Horváth, CSc., Mgr. Stanislav Huszár, PhD., Mgr. Petra Chovančíková, PhD., prof. RNDr. Marta Kollárová, DrSc., doc. RNDr. Jana Korduláková, PhD., prof. RNDr. Katarína Mikušová, DrSc., Ing. Martina Neboháčová, PhD., doc. Mgr. Peter Polčic, PhD., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD., Mgr. Júlia Zemanová, PhD.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-XXXX-010/22	Perspectives of Biochemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 96

A	B	C	D	E	FX
93,75	0,0	0,0	0,0	0,0	6,25

Lecturers: doc. RNDr. Marek Mentel, PhD., Mgr. Filip Brázdovič, PhD., Mgr. Andrea Cillingová, PhD., prof. RNDr. Anton Horváth, CSc., Mgr. Stanislav Huszár, PhD., Mgr. Petra Chovančíková, PhD., prof. RNDr. Marta Kollárová, DrSc., doc. RNDr. Jana Korduláková, PhD., prof. RNDr. Katarína Mikušová, DrSc., Ing. Martina Neboháčová, PhD., doc. Mgr. Peter Polčic, PhD., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD., Mgr. Júlia Zemanová, PhD.

Last change: 19.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFR/N-bBXX-002/22	Perspectives of Current Biology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 539

A	ABS	B	C	D	E	FX
69,94	0,0	12,43	6,68	1,3	0,93	8,72

Lecturers: doc. Mgr. Michal Martinka, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., prof. RNDr. Karol Mičieta, PhD., doc. RNDr. Radoslav Beňuš, PhD., prof. RNDr. Ján Turňa, CSc., prof. RNDr. Michal Zeman, DrSc., doc. Mgr. Peter Vďačný, PhD., doc. RNDr. Stanislav Stuchlík, PhD., prof. RNDr. Yvetta Gbelská, CSc., doc. RNDr. Tomáš Derka, PhD., RNDr. Boris Klempa, DrSc.

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-025/22	Physical Chemistry 1

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 2 **per level/semester:** 56 / 28
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 3.

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: 78

A	B	C	D	E	FX
23,08	16,67	19,23	15,38	7,69	17,95

Lecturers: doc. RNDr. Ivan Valent, CSc., prof. Ing. Dušan Velič, DrSc., doc. Mgr. Pavel Neogrády, DrSc., prof. RNDr. Vladimír Kellö, DrSc.

Last change: 21.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-023/22	Physical Chemistry 2

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 4.

Educational level: I.

Prerequisites: PriF.KFTCh/N-bCXX-025/22 - Physical 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: 23

A	B	C	D	E	FX
26,09	30,43	13,04	17,39	13,04	0,0

Lecturers: doc. RNDr. Ivan Valent, CSc., prof. Ing. Dušan Velič, DrSc., doc. Mgr. Pavel Neogrády, DrSc., RNDr. Lukáš Félix Pašteka, PhD.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-101/22	Physical Education 1

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 744

A	B	C	D	E	FX
91,13	1,34	0,27	0,27	0,0	6,99

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-102/22	Physical Education 2

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 336

A	B	C	D	E	FX
94,35	0,0	0,0	0,0	0,3	5,36

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-103/22	Physical Education 3

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 440

A	B	C	D	E	FX
95,68	0,68	0,91	0,0	0,23	2,5

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-104/22	Physical Education 4

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 283

A	B	C	D	E	FX
96,82	0,35	0,35	0,35	0,0	2,12

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-105/22	Physical Education 5

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 349

A	B	C	D	E	FX
96,56	0,57	0,0	0,0	0,0	2,87

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-106/22	Physical Education 6

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
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: 312

A	B	C	D	E	FX
95,83	0,0	0,0	0,0	0,32	3,85

Lecturers: Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, PaedDr. Vladimír Pajkoš, Mgr. Dana Széllová, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF-FMFI.KEF/N-bCXX-016/15	Physics for the Chemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 4 / 3 **per level/semester:** 56 / 42
Form of the course: on-site learning

Number of credits: 7

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: 484

A	B	C	D	E	FX
8,26	8,68	13,22	15,29	30,37	24,17

Lecturers: prof. RNDr. Peter Markoš, DrSc., Mgr. Marián Danko, PhD., RNDr. Ladislav Moravský, PhD., RNDr. Matúš Sámel, PhD., RNDr. Michal Ďurian, PhD.

Last change: 18.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBo/N-XXXX-003/21	Plants known and unknown

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 839

A	B	C	D	E	FX
63,77	24,43	6,2	0,0	2,38	3,22

Lecturers: Ing. Mgr. Eva Zahradníková, PhD., doc. Mgr. Katarína Mišíková, PhD., doc. RNDr. Jana Ščevková, PhD.

Last change: 30.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KRGRR/N-XXXX-002/21	Practical Geography for Natural Scientists

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 58

A	B	C	D	E	FX
84,48	0,0	0,0	0,0	0,0	15,52

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., 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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KIHG/N-XXXX-012/21	Practical Geology for Everyone

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 185

A	B	C	D	E	FX
77,3	7,57	4,32	3,24	1,08	6,49

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-048/22	Practical for a Bachelor's Thesis in Analytical Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 8

A	B	C	D	E	FX
87,5	12,5	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Róbert Bodor, PhD., RNDr. Jaroslav Blaško, PhD., doc. RNDr. Róbert Góra, PhD., RNDr. Renáta Górová, PhD., doc. RNDr. Radoslav Halko, PhD., Mgr. Jasna Hradski, PhD., prof. PharmDr. Josef Jampílek, PhD., RNDr. Helena Jurdáková, PhD., RNDr. Robert Kubinec, CSc., prof. RNDr. Marian Masár, PhD., RNDr. Csilla Mišľanová, PhD., RNDr. Simona Procházková, PhD., Ing. Roman Szücs, PhD., RNDr. Peter Troška, PhD., doc. RNDr. Andrea Vojs Staňová, PhD., RNDr. Katarína Chovancová, PhD.

Last change: 30.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-026/22	Practical for a Bachelor's Thesis in Biochemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 7 **per level/semester:** 98
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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-021/22	Practical for a Bachelor's Thesis in Inorganic Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 3 **per level/semester:** 42
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: 4

A	B	C	D	E	FX
75,0	25,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Erik Rakovský, PhD., RNDr. Milan Sýkora, PhD., RNDr. Ján Šimunek, PhD., doc. Mgr. Olivier Monfort, PhD., Mgr. Peter Hrobárik, PhD., Mgr. Martin Motola, PhD., RNDr. Jana Chrappová, PhD., prof. RNDr. Jozef Noga, DrSc., RNDr. Lukáš Krivosudský, PhD., prof. RNDr. Gustáv Plesch, DrSc., doc. RNDr. Jozef Tatiersky, PhD.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-049/22	Practicals in Organic Chemistry (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 5 **per level/semester:** 70
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

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: 77

A	B	C	D	E	FX
48,05	14,29	14,29	1,3	7,79	14,29

Lecturers: RNDr. Viera Poláčková, PhD., PharmDr. Ivica Sigmundová, PhD., Mgr. Filip Bulko, PhD., Mgr. Bernard Mravec, PhD., Mgr. Brigita Mudráková, PhD.

Last change: 25.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-020/22	Practicals in Organic Chemistry (2)

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 6d
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 4., 6.

Educational level: I.

Prerequisites: PriF.KOrCh/N-bCXX-049/22 - Practicals in 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: 14

A	B	C	D	E	FX
85,71	7,14	7,14	0,0	0,0	0,0

Lecturers: doc. RNDr. Peter Magdolen, PhD., Mgr. Iveta Kmentová, PhD., Mgr. Ambroz Almássy, PhD.

Last change: 13.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KBCh/N-bCBI-020/22	Principles of Cell Biology

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 5.

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.

Mitochondria and chloroplasts. Ultrastructure and function of semiautonomous organelles. Specific roles of mitochondrial and chloroplast membranes. Organelle genomes. Oxidative phosphorylation. Photosynthesis-photophosphorylation.
Endoplasmic reticulum, Golgi apparatus. Structure and function. Smooth and rough endoplasmic reticulum, sarcoplasmic reticulum.
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.
Cytoskeleton as a dynamic structure. Cytoskeletal components. Cytoskeleton as a motive system: vesicular transport, cell motility and cell division.
Cell surfaces. Cytoplasmic membrane and cell wall. Extracellular matrix. From individual cells to tissues and multicellular organisms.
Cells in a social context. Biofilms. Cells as part of tissues. Epithelium and intercellular connections. Quorum sensing. Intercellular communication and cell death.

Recommended literature:
Alberts et al. (2014) Molecular Biology of the Cell, Garland Science.
Alberts et al. (2014) Essential Cell Biology, 5th edition, W. W. Norton & Company.
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:
the course is provided only in the winter semester

Past grade distribution
Total number of evaluated students: 41

A	B	C	D	E	FX
36,59	17,07	19,51	7,32	12,2	7,32

Lecturers: prof. RNDr. Jozef Nosek, DrSc., doc. Mgr. Peter Polčic, PhD.

Last change: 07.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
LF-PriF.KBCh/N-bCBI-005/22	Principles of Functional Biochemistry

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 24

A	B	C	D	E	FX
8,33	12,5	12,5	16,67	45,83	4,17

Lecturers: doc. RNDr. Monika Ďurfinová, PhD., prof. MUDr. Ladislav Turecký, CSc.

Last change: 27.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-027/22	Programming in Chemistry

Educational activities:
Type of activities: practicals
Number of hours:
per week: 4 **per level/semester:** 56
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: 9

A	B	C	D	E	FX
88,89	11,11	0,0	0,0	0,0	0,0

Lecturers: doc. Mgr. Pavel Neogrády, DrSc., doc. Mgr. Michal Pitoňák, PhD.

Last change: 21.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJCh/N-bCJD-041/22	Radiation and life

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

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: 104

A	B	C	D	E	FX
76,92	18,27	0,96	0,0	0,0	3,85

Lecturers: doc. RNDr. Eva Viglašová, PhD., Ing. Darina Tóthová, CSc., Mgr. Michaela Matulová, PhD., Mgr. Silvia Vyhnáleková

Last change: 13.09.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF/N-bCXX-152/22	Repetitórium 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: 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: 74

A	B	C	D	E	FX
29,73	16,22	9,46	12,16	28,38	4,05

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 17.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-110/22	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: 96

A	B	C	D	E	FX
53,13	0,0	0,0	0,0	0,0	46,88

Lecturers: PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-128/22	Scientific English for Chemistry 1

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 48

A	B	C	D	E	FX
68,75	16,67	2,08	0,0	2,08	10,42

Lecturers: Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD.

Last change: 03.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KJ/N-bXCJ-129/22	Scientific English for Chemistry 2

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 28

A	B	C	D	E	FX
75,0	17,86	0,0	0,0	3,57	3,57

Lecturers: Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KŽFE/N-bBFE-021/22	Selected chapters from Animal Physiology

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
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: 26

A	B	C	D	E	FX
15,38	19,23	15,38	15,38	30,77	3,85

Lecturers: prof. RNDr. Michal Zeman, DrSc., doc. Mgr. Monika Okuliarová, PhD.

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-015/22	Selected topics of coordination chemistry and stereochemistry

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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
50,0	25,0	25,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Jozef Tatiersky, PhD.

Last change: 04.10.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-051/22	Seminar in Separation Methods

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 14
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: 10

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: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAlCh/N-bCAL-049/22	Separation Methods

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 42 / 28
Form of the course: on-site learning

Number of credits: 5

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: 24

A	B	C	D	E	FX
25,0	29,17	33,33	0,0	12,5	0,0

Lecturers: prof. RNDr. Marian Masár, PhD., RNDr. Jaroslav Blaško, PhD., doc. RNDr. Róbert Góra, PhD., RNDr. Robert Kubinec, CSc., Mgr. Jasna Hradski, PhD., RNDr. Peter Troška, PhD., RNDr. Renáta Górová, PhD., RNDr. Helena Jurdáková, PhD.

Last change: 07.02.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-108/22	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: 94

A	B	C	D	E	FX
67,02	0,0	0,0	0,0	0,0	32,98

Lecturers: PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KAgCh/N-bCAG-008/22	The Chemistry of Nanomaterials

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
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: 10

A	B	C	D	E	FX
90,0	10,0	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Gustáv Plesch, DrSc., prof. RNDr. Juraj Bujdák, DrSc., RNDr. Milan Sýkora, PhD., Mgr. Martin Motola, PhD.

Last change: 26.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCXX-015/22	Theory of Chemical Bond

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 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: 30

A	B	C	D	E	FX
30,0	26,67	10,0	16,67	13,33	3,33

Lecturers: prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Miroslav Urban, DrSc.

Last change: 29.07.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KZ/N-XXXX-006/21	Theory of species

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
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: 179

A	B	C	D	E	FX
63,69	13,41	3,91	1,12	0,56	17,32

Lecturers: doc. Mgr. Peter Vďačný, PhD.

Last change: 07.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KOrCh/N-bCXX-046/22	Toxicology

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 35

A	B	C	D	E	FX
71,43	14,29	11,43	0,0	0,0	2,86

Lecturers: Mgr. Henrieta Stankovičová, PhD., RNDr. Katarína Stebelová, PhD., Mgr. Jasna Hradski, PhD.

Last change: 07.11.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KFTCh/N-bCFZ-001/22	What is Physical and Theoretical Chemistry?

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 1 / 1 **per level/semester:** 14 / 14
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: 2

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:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-107/22	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: 231

A	B	C	D	E	FX
62,77	0,0	0,0	0,0	0,0	37,23

Lecturers: PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Natural Sciences

Course ID:	**Course title:**
PriF.KTV/N-bXTV-109/22	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: 303

A	B	C	D	E	FX
64,69	0,0	0,0	0,0	0,0	35,31

Lecturers: PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská

Last change: 01.08.2022

Approved by: