

# Course descriptions

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## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-412/22				<b>Course title:</b> Abstract of a contribution from a domestic or an international conference (originally AFG, AFK, AFH, AFL)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 4							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 1025							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-505/22				<b>Course title:</b> Bachelor's thesis reviewer			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 3							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 414							
A	ABS	B	C	D	E	FX	NEABS
0,24	99,76	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-504/22				<b>Course title:</b> Bachelor's thesis supervisor			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 8							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 131							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-414/22				<b>Course title:</b> Completing an long-term ERASMUS+ internship (minimum 60 days)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 44							
A	ABS	B	C	D	E	FX	NEABS
0,0	97,73	0,0	0,0	0,0	0,0	0,0	2,27
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-415/22				<b>Course title:</b> Completion of SAIA/NŠP internship program or other equivalent (minimum 30 days)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 57							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-416/22			<b>Course title:</b> Completion of a short-term foreign internship (15-30 days, and related to the topic of the PhD thesis)				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 7							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 106							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DSSZ-303/22	<b>Course title:</b> Defence of dissertation thesis
<b>Number of credits:</b> 30	
<b>Educational level:</b> III.	
<p><b>Course requirements:</b>            Conditions for passing the course:            Course evaluation takes place as a part of the State examination in accordance to the Study regulations of the Faculty of Natural Sciences UK in Bratislava upon submission of the written part of the dissertation thesis (as final work). Assessment is standard and reflects the student's sufficient orientation in the issue. The conditions for successful course completion are in accordance with the Study Regulations of the Faculty of Natural Sciences UK.</p>	
<p><b>Learning outcomes:</b>            Educational outcomes: The aim of the course is to capitalise on theoretical, methodological and applied knowledge of doctoral studies in the elaboration and subsequent defence of the dissertation thesis, and thus the successful completion of doctoral stu</p>	
<p><b>Class syllabus:</b>            Brief outline of the course: The student's dissertation thesis will demonstrate his/her ability and readiness for independent scientific and creative activities in the area of research or development or for independent theoretical and creative artistic creativity. It should be characterised by a high degree of analysis and synthesis of knowledge, as well as a sufficient overview of existing literature. The work must be original and created by the author in compliance with the rules of working with information sources. The academic work must not appear to be plagiarised, nor infringe the copyrights of other authors. The author is required to thoroughly cite the information sources used, list the specific results of other authors or team of authors by citing the source, accurately describe the methods and working procedures of other authors or teams of authors, and document the laboratory results and field research of other authors or teams of authors. Style of citation is governed by the practice in the given scientific field, respecting the relevant norms and standards.</p>	
<b>State exam syllabus:</b>	
<p><b>Recommended literature:</b>            Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.</p>	
<p><b>Languages necessary to complete the course:</b>            Required language for successful course completion:            Slovak language in combination with English (study literature in English)</p>	
<b>Last change:</b> 24.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-001/22	<b>Course title:</b> Dissertation 1
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 1.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	

<b>Languages necessary to complete the course:</b> Required language for successful course completion: Slovak language in combination with English (study literature in English)	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 63	
ABS	NEABS
100,0	0,0
<b>Lecturers:</b> doc. RNDr. Stanislav Stuchlík, CSc., doc. RNDr. Jozef Grones, CSc.	
<b>Last change:</b> 12.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-002/22	<b>Course title:</b> Dissertation 2
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 2.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	

<b>Languages necessary to complete the course:</b> Required language for successful course completion: Slovak language in combination with English (study literature in English)	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 45	
ABS	NEABS
100,0	0,0
<b>Lecturers:</b> doc. RNDr. Stanislav Stuchlík, CSc., doc. RNDr. Jozef Grones, CSc.	
<b>Last change:</b> 13.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-003/22	<b>Course title:</b> Dissertation 3
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 3.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	

<b>Languages necessary to complete the course:</b> Required language for successful course completion: Slovak language in combination with English (study literature in English)	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 52	
ABS	NEABS
98,08	1,92
<b>Lecturers:</b> doc. RNDr. Jozef Grones, CSc., prof. RNDr. Hana Drahovská, PhD.	
<b>Last change:</b> 18.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-004/22	<b>Course title:</b> Dissertation 4
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 4.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	

<b>Languages necessary to complete the course:</b> Required language for successful course completion: Slovak language in combination with English (study literature in English)	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 42	
ABS	NEABS
97,62	2,38
<b>Lecturers:</b>	
<b>Last change:</b> 10.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-005/22	<b>Course title:</b> Dissertation 5
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 5.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	

<b>Languages necessary to complete the course:</b> Required language for successful course completion: Slovak language in combination with English (study literature in English)	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 37	
ABS	NEABS
100,0	0,0
<b>Lecturers:</b>	
<b>Last change:</b> 06.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-006/22	<b>Course title:</b> Dissertation 6
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 6.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	
<b>Languages necessary to complete the course:</b>	

Required language for successful course completion: Slovak language in combination with English (study literature in English)

**Notes:**

**Past grade distribution**

Total number of evaluated students: 35

ABS	NEABS
100,0	0,0

**Lecturers:**

**Last change:** 09.11.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/PriF-DSSZ-007/22	<b>Course title:</b> Dissertation 7
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 7.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.	
<b>Class syllabus:</b> Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student. The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies.	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	
<b>Languages necessary to complete the course:</b>	

Required language for successful course completion: Slovak language in combination with English (study literature in English)

**Notes:**

**Past grade distribution**

Total number of evaluated students: 36

ABS	NEABS
100,0	0,0

**Lecturers:**

**Last change:** 09.11.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBBT-400/22	<b>Course title:</b> Dissertation exam
<b>Number of credits:</b> 15	
<b>Educational level:</b> III.	
<b>Course requirements:</b> Conditions for passing the course: Course evaluation takes place as a part of the State examination in accordance to the Study regulations of the Faculty of Natural Sciences UK in Bratislava, as well as submission of the written part of the dissertation thesis within the set deadline. The subjects of the state examination include a discussion about the written work of the dissertation examination (prepared by the doctoral student), as well as other subjects of the oral examination (ad hoc) approved by the Dean. Assessment is standard and reflects the student's sufficient orientation in the issue. The conditions for successful course completion are in accordance with the Study Regulations of the Faculty of Natural Sciences UK.	
<b>Learning outcomes:</b> Educational outcomes: The objective of the course is to gain basic habits and cultural-ethical aspects of working with scientific literature, evaluation, and systemization of the studied knowledge. The doctoral student needs to successfully pass the dissertation examination according to the act on Universities and Study Regulations of the Faculty of Natural Sciences of Comenius University in Bratislava.	
<b>Class syllabus:</b> Brief outline of the course: Based on the description of the starting points, principles, and conclusions from the published results of the studied issues, the aim is to teach the doctoral student how to process critical research. A further objective is to understand the principles of scientific work and its legal, physical, and social attributes. The main output is the elaboration of the written work for the dissertation examination and its successful completion in accordance with the Study Regulations of the Faculty of Natural Sciences UK. The form and content of the work is regulated by article 34, paragraph 4 of the Study Regulations of the Faculty of Natural Sciences UK. The dissertation examination consists of a part consisting of a discussion of the written work for the dissertation examination, as well as a part in which the doctoral student needs to demonstrate theoretical knowledge according to the focus of the dissertation topic. The composition of the Examination Committee, the determination of the Opponent (expert examiner) and the general course of the dissertation examination are governed by the current Study Regulations of the Faculty of Natural Sciences UK.	
<b>State exam syllabus:</b>	
<b>Recommended literature:</b> Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.	
<b>Languages necessary to complete the course:</b>	

Required language for successful course completion: Slovak language in combination with English (study literature in English)
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<b>Last change:</b> 18.10.2022
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<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.
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## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-400/22				<b>Course title:</b> Grant CU or Grant SAS or equivalent grant			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 12							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 261							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-413/22				<b>Course title:</b> Intellectual Property Rights Document (originally AGJ)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 10							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 1							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBMB-001/22	<b>Course title:</b> Molecular Biology 1
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: Seminars, consultations, and self-study Number of contact hours: Individual with regard to the doctoral degree Form of the course: on-site learning, distance learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 1.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Final oral exam. Active approach and continuous elaboration of assignments. Credits will not be awarded to a student who does not demonstrate good theoretical knowledge or good synthetic thinking.	
<b>Learning outcomes:</b> The result is the achievement of an advanced standard of knowledge in the field of molecular biology, regardless of the type of previous master's degree. Graduates of the course are able to describe individual findings, but mainly to be able to interpret them in context and apply them to different levels of living systems. If necessary, the addition of highly specialized problems is mastered by advanced procedures of searching and using electronic information sources. The main topic that the student must master and be able to orientate in it is primarily the implementation of genetic information and the mechanisms of regulation of this process.	
<b>Class syllabus:</b> 1. Structure and properties of nucleic acids, relation of structure to function for individual NKS; 2. Proteins - the relationship between structure and function; 3. Interactions of biomacromolecules and methods of their study, 3. Transcription in prokaryotes - regulation, model systems, 4. Transcription in eukaryotes regulation, model systems; 5. Methods of transcription study; 6. Replication - model systems; 6. Translation - molecular-biological approaches to study; 7. Genome dynamics - transposition, mobilization, recombination and DNA repair - insertion sequences, compound transposons, retrotransposons, transduction, transformation, transfection, recombination; 8. Methods of recombinant DNA - preparation, enzymes, vectors, analysis of recombinants, heterologous systems, polymerase chain reaction, sequencing; 9. Bioinformatics approaches in molecular biology, sequence databases.	
<b>Recommended literature:</b>	

1. Alberts, B., D.Bray, J.Lewis, M.Raff, K.Roberts and J.D. Watson (2007) Molecular biology of the cell. 5rd edition. Garland Publishing Inc.; 2. Lodish, H., et al. (2012), 2. Watson, J.D., et al. (2007) Recombinant DNA: Genes and Genomes - A Short Course, Third Edition Recombinant DNA. 2nd ed. Scientific American Books; 3. Krebs et al. Lewin's Genes X, Jones and Bartlett, Sudbury, Mass, 2011; 4. Alberts a kol. Základy bunečné biologie, Espero Publishing, Ústí nad Labem, 2005 (Preklad z angličtiny); 5. Rosypal S.: Úvod do molekulárnej biológie I-III, 2002; 6. Turňa a kolektív, Rekombinantné DNA a biotechnológie, Alfa, Bratislava 1989; 7. Whitford D. Proteins – structure and function, John Wiley & Sons, Ltd, 2005;

**Languages necessary to complete the course:**

Slovak language in combination with English.

**Notes:**

**Past grade distribution**

Total number of evaluated students: 54

ABS	NEABS
100,0	0,0

**Lecturers:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Stanislav Stuchlík, CSc.

**Last change:** 17.09.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBMB-002/22	<b>Course title:</b> Molecular Biology 2
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: Seminars, consultations, and self-study Number of contact hours: Individual with regard to the doctoral degree Form of the course: on-site learning, distance learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 2.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Final oral exam. Active approach and continuous elaboration of assignments. Credits will not be awarded to a student who does not demonstrate good theoretical knowledge or good synthetic thinking.	
<b>Learning outcomes:</b> The result is the achievement of an advanced standard of knowledge in the field of molecular biology, regardless of the type of previous master's degree. Graduates of the course are able to describe individual findings, but mainly to be able to interpret them in context and apply them to different levels of living systems. If necessary, the addition of highly specialized problems is mastered by advanced procedures of searching and using electronic information sources. The main topic that the student must master and be able to orientate in it is primarily the implementation of genetic information and the mechanisms of regulation of this process.	
<b>Class syllabus:</b> 1. Model systems and model organisms in molecular biology; 2. Molecular regulation of gene expression; operon, regulon, moduon - their structure and function, repression and induction, antisense RNA, miRNA, model operons and their regulation; 3. Viruses as a model of gene expression regulation studies; 4. Advanced methods of recombinant DNA technology: a. In vitro mutagenesis, b. heterologous expression, c. polymerase chain reaction, d. host strains, e. cloning vectors; 6. Molecular identification and systematic classification of organisms; molecular clock; 7. Biological databases and integrated database systems; 8. Comparative genomics; 9. High-Throughput methods in molecular biology; 10. Next gene sequencing and its applications; 11. Omice methodical techniques; 12. Legislative frameworks for working with GMOs; 13. Transgenic organisms	
<b>Recommended literature:</b>	

1. Alberts, B., D.Bray, J.Lewis, M.Raff, K.Roberts and J.D. Watson (2007) Molecular biology of the cell. 5rd edition. Garland Publishing Inc.;
2. Lodish, H., at al. (2012), 2. Watson, J.D., et al. (2007) Recombinant DNA: Genes and Genomes - A Short Course, Third Edition Recombinant DNA. 2nd ed. Scientific American Books;
3. Krebs et al. Lewin's Genes X, Jones and Bartlett, Sudbury, Mass, 2011;
4. Alberts a kol. Základy bunecnej biologie, Espero Publishing, Ústí nad Labem, 2005 (Preklad z anglictiny);
5. Rosypal S.: Úvod do molekularnej biologie I-III, 2002;
6. Turňa a kolektív, Rekombinantné DNA a biotechnologie, Alfa, Bratislava 1989;
7. Turňa, J., Stuchlík, S. Drahovská, H., Gálová, Z. Timko, J. (2004). Techniky rekombinantných DNA. Veda, vydavateľstvo SAV, Bratislava;

**Languages necessary to complete the course:**

Slovak language in combination with English.

**Notes:**

**Past grade distribution**

Total number of evaluated students: 40

ABS	NEABS
100,0	0,0

**Lecturers:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Stanislav Stuchlík, CSc.

**Last change:** 17.09.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBMB-003/22	<b>Course title:</b> Optional Subject 1
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: Seminars, consultations, and self-study Number of contact hours: Individual with regard to the doctoral degree Form of the course: on-site learning, distance learning	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b> 1.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Final oral exam. Active approach and continuous elaboration of assignments. Credits will not be awarded to a student who does not demonstrate good theoretical knowledge or good synthetic thinking.	
<b>Learning outcomes:</b> The student will gain a more realistic picture of the latest research projects and fields of study in molecular biology in Slovakia and in the world. They will gain a closer understanding of the context and impacts of the lectured topics in selected lectures, which are built as a solution to a problem - a project, which leads the student not to learn the facts but to seek methodological approaches; how to uncover the molecular nature of the problem in various areas of biological research.	
<b>Class syllabus:</b> Individual student presentations focused on a topic related to currently lectured selected lectures. Subsequent discussion of other students for the presentation. Finally, the evaluation and guidance of the discussed issues by the teacher. Students must be able to explain the principles of the methodological procedures used in the study of individual topics. Subsequently, the selection and justification of the experimental procedures used	
<b>Recommended literature:</b> 1. Alberts, B., D.Bray, J.Lewis, M.Raff, K.Roberts and J.D. Watson (2007) Molecular biology of the cell. 5rd edition. Garland Publishing Inc.; 2. Lodish, H., at al. (2012), 2. Watson, J.D., et al. (2007) Recombinant DNA: Genes and Genomes - A Short Course, Third Edition Recombinant DNA. 2nd ed. Scientific American Books; 3. Krebs et al. Lewin's Genes X, Jones and Bartlett, Sudbury, Mass, 2011;	

4. Alberts a kol. Základy buněčné biologie, Espero Publishing, Ústí nad Labem, 2005 (Preklad z angličtiny);
5. Rosypal S.: Úvod do molekulárnej biológie I-III, 2002;
6. Turňa a kolektív, Rekombinantné DNA a biotechnológie, Alfa, Bratislava 1989;
7. Whitford D. Proteins – structure and function, John Wiley & Sons, Ltd, 2005;

**Languages necessary to complete the course:**

Slovak language in combination with English.

**Notes:**

**Past grade distribution**

Total number of evaluated students: 50

ABS	NEABS
100,0	0,0

**Lecturers:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Stanislav Stuchlík, CSc.

**Last change:** 17.09.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBMB-004/22	<b>Course title:</b> Optional Subject 2
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: Seminars, consultations, and self-study Number of contact hours: Individual with regard to the doctoral degree Form of the course: on-site learning, distance learning	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b> 2.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Final oral exam. Active approach and continuous elaboration of assignments. Credits will not be awarded to a student who does not demonstrate good theoretical knowledge or good synthetic thinking.	
<b>Learning outcomes:</b> The result is the achievement of an advanced standard of knowledge in the field of molecular biology, regardless of the type of previous master's degree. Graduates of the course are able to describe individual findings, but mainly to be able to interpret them in context and apply them to different levels of living systems. If necessary, the addition of highly specialized problems is mastered by advanced procedures of searching and using electronic information sources.	
<b>Class syllabus:</b> Selected topics from the following methods of molecular biology: Principles of isolation and purification of nucleic acids. Nucleic acid electrophoresis. Preparation of recombinant DNAs. Enzymes in recombinant DNA techniques. Properties and types of vectors. Recombinant selection and analysis. In vitro mutagenesis. Genome editing. Heterologous expression methods.	
<b>Recommended literature:</b> 1. Alberts, B., D.Bray, J.Lewis, M.Raff, K.Roberts and J.D. Watson (2007) Molecular biology of the cell. 5rd edition. Garland Publishing Inc.; 2. Lodish, H., at al. (2012), 2. Watson, J.D., et al. (2007) Recombinant DNA: Genes and Genomes - A Short Course, Third Edition Recombinant DNA. 2nd ed. Scientific American Books; 3. Krebs et al. Lewin's Genes X, Jones and Bartlett, Sudbury, Mass, 2011; 4. Alberts a kol. Základy buněčné biologie, Espero Publishing, Ústí nad Labem, 2005 (Překlad z angličtiny);	

5. Rosypal S.: Úvod do molekulárnej biológie I-III, 2002; 6. Turňa a kolektív, Rekombinantné DNA a biotechnológie, Alfa, Bratislava 1989; 7. Whitford D. Proteins – structure and function, John Wiley & Sons, Ltd, 2005;	
<b>Languages necessary to complete the course:</b> Slovak language in combination with English.	
<b>Notes:</b>	
<b>Past grade distribution</b> Total number of evaluated students: 39	
ABS	NEABS
100,0	0,0
<b>Lecturers:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Stanislav Stuchlík, CSc.	
<b>Last change:</b> 17.09.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KMB/N-DBMB-005/22	<b>Course title:</b> Optional Subject 3
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: Seminars, consultations, and self-study Number of contact hours: Individual with regard to the doctoral degree Form of the course: on-site learning, distance learning	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b> 3.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Final oral exam. Active approach and continuous elaboration of assignments. Credits will not be awarded to a student who does not demonstrate good theoretical knowledge or good synthetic thinking.	
<b>Learning outcomes:</b> The result is the achievement of an advanced standard of knowledge in the field of molecular biology, regardless of the type of previous master's degree. Graduates of the course are able to describe individual findings, but mainly to be able to interpret them in context and apply them to different levels of living systems. If necessary, the addition of highly specialized problems is mastered by advanced procedures of searching and using electronic information sources.	
<b>Class syllabus:</b> Nucleic acid hybridization techniques. DNA microarray analysis. Polymerase chain reaction (PCR) and sequencing. Nucleic acid sequencing methods. Bioinformatics analysis of massively parallel sequencing (NGS) data. Methods of bacterial analysis. Principles of protein analysis (eg SDS-PAGE and 2D-electrophoresis, protein mass spectroscopy - MALDI-TOF).	
<b>Recommended literature:</b> 1. Alberts, B., D.Bray, J.Lewis, M.Raff, K.Roberts and J.D. Watson (2007) Molecular biology of the cell. 5rd edition. Garland Publishing Inc.; 2. Lodish, H., at al. (2012), 2. Watson, J.D., et al. (2007) Recombinant DNA: Genes and Genomes - A Short Course, Third Edition Recombinant DNA. 2nd ed. Scientific American Books; 3. Krebs et al. Lewin's Genes X, Jones and Bartlett, Sudbury, Mass, 2011; 4. Alberts a kol. Základy buňčné biologie, Espero Publishing, Ústí nad Labem, 2005 (Preklad z angličtiny);	

<p>5. Rosypal S.: Úvod do molekulárnej biológie I-III, 2002;          6. Turňa a kolektív, Rekombinantné DNA a biotechnológie, Alfa, Bratislava 1989;          7. Whitford D. Proteins – structure and function, John Wiley &amp; Sons, Ltd, 2005;</p>	
<p><b>Languages necessary to complete the course:</b>          Slovak language in combination with English.</p>	
<p><b>Notes:</b></p>	
<p><b>Past grade distribution</b>          Total number of evaluated students: 39</p>	
ABS	NEABS
100,0	0,0
<p><b>Lecturers:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Stanislav Stuchlík, CSc., doc. Mgr. Andrej Ficek, PhD., doc. RNDr. Tomáš Szemes, PhD.</p>	
<p><b>Last change:</b> 17.09.2022</p>	
<p><b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.</p>	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-508/22				<b>Course title:</b> Other activities			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 1							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 753							
A	ABS	B	C	D	E	FX	NEABS
0,13	99,87	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-501/22			<b>Course title:</b> P1 Pedagogical output as a whole (originally ACA, ACB, BCI, BCB)				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 10							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-503/22				<b>Course title:</b> P2 Pedagogical output as a part (originally BCK)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 10							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 0							
A	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-502/22				<b>Course title:</b> P2 Pedagogical output as part (originally ACC, ACD)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 15							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 0							
A	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-507/22				<b>Course title:</b> Pedagogical activity (4 hours/WS and 4 hours/SS) or alternative pedagogical work			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 2							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 847							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-026/22	<b>Course title:</b> Professional English 1
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 1., 3.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Each course participant is required to achieve proficient knowledge and usage of the English grammar, professional vocabulary, reading and listening comprehension, writing professional texts and oral presentations. Credits will be awarded to students who will demonstrate active participation and deliver all set tasks and assignments successfully. The course participants will be awarded a pass or a fail upon course completion.	
<b>Learning outcomes:</b> Upon completion of the course, PhD students will effectively use the English language for professional purposes. They will proficiently comprehend targeted written and audio texts and present their viewpoints in required forms.	
<b>Class syllabus:</b> Theoretical and practical skills in professional written communication include appropriate structure of formal written texts (emails, application forms, personal statements, cover letters, abstracts, scientific articles, paraphrasing, using citations, citing sources, etc.) The course also focuses on theoretical explanation of correct delivery of oral texts, professional presentations and discussions. The course primary target is to facilitate PhD students with proficient usage of all the aspects of written and oral communication in various settings.	
<b>Recommended literature:</b> Armer, T.: Cambridge English for Scientists CD ROM Writing Professional English Team of authors: Test your Listening Skills: A Handbook for Science Doctoral students Team of authors: Test your Reading Skills: A Handbook for Science Doctoral students	
<b>Languages necessary to complete the course:</b> English	
<b>Notes:</b>	

<b>Past grade distribution</b>							
Total number of evaluated students: 404							
A	ABS	B	C	D	E	FX	NEABS
0,0	99,75	0,0	0,0	0,0	0,0	0,0	0,25
<b>Lecturers:</b> Mgr. Aneta Barnes, RNDr. Tatiana Slov�kov�, PhD.							
<b>Last change:</b> 03.10.2022							
<b>Approved by:</b> prof. RNDr. J�n Tur�a, CSc., doc. RNDr. Tom�s Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-027/22	<b>Course title:</b> Professional English 2
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 2.	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Each course participant is required to achieve proficient knowledge and usage of the English grammar, professional vocabulary, reading and listening comprehension, writing professional texts and oral presentations. Credits will be awarded to students who will demonstrate active participation during seminars and deliver all prior set tasks and assignments successfully. The course participants will be awarded a pass or a fail upon course completion	
<b>Learning outcomes:</b> Doctoral students who successfully pass the examination in Professional English 2 will be enabled to use the English language for specific purposes in all its forms effectively and sufficiently. They will thoroughly comprehend professional texts in written and/or audio form, acquire professional vocabulary and actively participate in various oral communication settings.	
<b>Class syllabus:</b> Theoretical and practical skills in professional writing communication in the English language as a follow up to prior gained knowledge in the previous semester encompass writing professional résumés, summaries, lay summaries, responses to job interview questions, professional CVs, comparing and contrasting in scientific articles, etc. Professional oral communication focusses on research-based scientific presentations and effectively led discussions.	
<b>Recommended literature:</b> Armer, T.: Cambridge English for Scientists CD ROM Writing Professional English Team of authors: Test your Listening Skills: A Handbook for Science Doctoral students Team of authors: Test your Reading Skills: A Handbook for Science Doctoral students	
<b>Languages necessary to complete the course:</b> English	
<b>Notes:</b> B1 level in English is required in order to pass this course. Seminars are held in summer semester. Number of students in one course is limited to twenty.	

Students can choose from four offered time slots.	
<b>Past grade distribution</b>	
Total number of evaluated students: 138	
ABS	NEABS
100,0	0,0
<b>Lecturers:</b> Mgr. Aneta Barnes	
<b>Last change:</b> 03.10.2022	
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF.KDPP/N-DSSZ-500/22				<b>Course title:</b> Selected topics from university pedagogy for non-teachers			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 3							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 40							
A	ABS	B	C	D	E	FX	NEABS
0,0	95,0	0,0	0,0	0,0	0,0	0,0	5,0
<b>Lecturers:</b> RNDr. Jana Ciceková, PhD., doc. RNDr. PaedDr. Zuzana Haláková, PhD., PhDr. ThLic. Peter Ikhardt, PhD.							
<b>Last change:</b> 30.09.2022							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-022/22	<b>Course title:</b> Slovak for Foreign Doctoral Students 1
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 3	
<b>Recommended semester:</b>	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1, from a complete beginner level. Based on the completion of the course, the participants are able to understand and react to common situations. They are able to speak about themselves, ask for more information they need to know. Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination.	
<b>Learning outcomes:</b> The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1, from a complete beginner level. Based on the completion of the course, the participants are able to understand and react to common situations. They are able to speak about themselves, ask for more information they need to know.	
<b>Class syllabus:</b> Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 (Lekcia: 1-5). UK v Bratislave, 2012. Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a> Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>	
<b>Recommended literature:</b> Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 (Lekcia: 1-5). UK v Bratislave, 2012. Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a> Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>	

<b>Languages necessary to complete the course:</b> Slovak in combination with English (the study literature is in both Slovak and English)							
<b>Notes:</b> It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.							
<b>Past grade distribution</b> Total number of evaluated students: 93							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová							
<b>Last change:</b> 28.09.2022							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-023/22	<b>Course title:</b> Slovak for Foreign Doctoral Students 2
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b>	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Type, extent and method of academic activities: 2 hours (at 60 min. per hour) of weekly lessons in the form of seminars. All academic activities will take place during the lessons. Number of credits: 3 credits Recommended semester/trimester of study: from 1st to 8th semester Level of study: third Subject conditions: Slovak for Foreign Doctoral Students 1 Requirements for course completion: active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester. Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination.	
<b>Learning outcomes:</b> Course Objectives: The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1 - intended for beginner or pre-intermediate.	
<b>Class syllabus:</b> The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical phenomena, conjugation and declination are practised. Vocabulary is focused on real-life communication needs.	
<b>Recommended literature:</b> Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a> Worksheets are prepared by the course instructor. Portal: <a href="https://slovae.eu/sk">https://slovae.eu/sk</a>	
<b>Languages necessary to complete the course:</b> Slovak in combination with English (the study literature is in both Slovak and English)	

**Notes:**

It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.

**Past grade distribution**

Total number of evaluated students: 64

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

**Lecturers:** Mgr. Karin Rózsová Wolfová

**Last change:** 18.07.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-024/22	<b>Course title:</b> Slovak for Foreign Doctoral Students 3
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b>	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Type, extent and method of academic activities: 2 hours (at 60 min. per hour) of weekly lessons in the form of seminars. All academic activities will take place during the lessons. Number of credits: 3 credits Recommended semester/trimester of study: from 1st to 8th semester Level of study: third Subject conditions: Slovak for Foreign Doctoral Students 2 Requirements for course completion: active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester. Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination.	
<b>Learning outcomes:</b> The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the levels A1 – A2. Intended for levels A1-A2, beginner to pre-intermediate	
<b>Class syllabus:</b> The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical phenomena, conjugation and declination are practised. Vocabulary is focused on real-life communication needs.	
<b>Recommended literature:</b> Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1, A2 Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a> Worksheets are prepared by the course instructor. Portal: <a href="https://slovak.eu/sk">https://slovak.eu/sk</a>	
<b>Languages necessary to complete the course:</b> Slovak in combination with English (the study literature is in both Slovak and English)	

**Notes:**

It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.

**Past grade distribution**

Total number of evaluated students: 59

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

**Lecturers:** Mgr. Karin Rózsová Wolfová

**Last change:** 18.07.2022

**Approved by:** prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KJ/N-DSSZ-028/22	<b>Course title:</b> Slovak for Foreign Doctoral Students 4
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b>	
<b>Educational level:</b> III.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Grading (Assessment/Evaluation): Active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester. Credits will be awarded to students who receive more than 60% on the final examination. The course participants will be awarded a pass or a fail upon course completion.	
<b>Learning outcomes:</b> Objectives and outcomes: The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the levels A1 – A2, pre-intermediate level. Based on the completion of the course, the participants are able to understand the common situations and they are able to have a discussion and comment basic daily scenarios.	
<b>Class syllabus:</b> Brief outline of the course: The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical aspects (verb - conjugation/next conjugation classes, possessive pronouns, I like/enjoy doing something, I like something, comparison of adjectives and adverbs, conditional) are practised. Vocabulary is focused on real-life communication needs.	
<b>Recommended literature:</b> Recommended literature: Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1. UK v Bratislave, 2012. Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A2. (Lekcia 1-4). UK v Bratislave, 2012. Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a> Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>	
<b>Languages necessary to complete the course:</b>	

Language of instruction: Slovak in combination with English (the study literature is in Slovak).							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 19							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová							
<b>Last change:</b> 18.10.2022							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-506/22				<b>Course title:</b> Supervisor of the SSC contribution			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 4							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 12							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-404/22				<b>Course title:</b> V1 Scientific output as a whole - ESB monograph (originally AAA, ABA), individual authorship less than 3 AH			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 1							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-401/22			<b>Course title:</b> V1 Scientific output as a whole – ESB monograph (originally AAA, ABA), individual authorship share $\geq 3$ AH				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 30							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 1							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-405/22			<b>Course title:</b> V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship less than 3 AH				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 8							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-402/22			<b>Course title:</b> V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship share $\geq 3$ AH				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 30							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 1							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-411/22			<b>Course title:</b> V2 Scientific output as part of ESB, collection - contribution in peer reviewed scientific collection, monograph (originally AEC, AFA, AFC, AED)				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 6							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 520							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-406/22			<b>Course title:</b> V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship less than 3 AH				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 3							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-403/22				<b>Course title:</b> V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship $\geq 3$ AH			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 30							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 0							
A	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-410/22				<b>Course title:</b> V3 Scientific output in a journal outside the index databases (originally ADE, ADF)			
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 12							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 79							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-407/22			<b>Course title:</b> V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 (originally ADC, ADD, ADM, ADN), first or corresponding author				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 50							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 218							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-408/22			<b>Course title:</b> V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q3- Q4 (originally ADC, ADD, ADM, ADN), first or corresponding author				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 40							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 109							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026							
<b>University:</b> Comenius University Bratislava							
<b>Faculty:</b> Faculty of Natural Sciences							
<b>Course ID:</b> PriF/N-DSSZ-409/22			<b>Course title:</b> V3 Scientific output in the journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 – Q3 - Q4 (originally ADC, ADD, ADM, ADN), co-author				
<b>Educational activities:</b> <b>Type of activities:</b> <b>Number of hours:</b> <b>per week: per level/semester:</b> <b>Form of the course:</b> on-site learning							
<b>Number of credits:</b> 20							
<b>Recommended semester:</b>							
<b>Educational level:</b> III.							
<b>Prerequisites:</b>							
<b>Course requirements:</b>							
<b>Learning outcomes:</b>							
<b>Class syllabus:</b>							
<b>Recommended literature:</b>							
<b>Languages necessary to complete the course:</b>							
<b>Notes:</b>							
<b>Past grade distribution</b> Total number of evaluated students: 379							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b>							
<b>Last change:</b>							
<b>Approved by:</b> prof. RNDr. Ján Turňa, CSc., doc. RNDr. Tomáš Szemes, PhD.							