

Course descriptions

TABLE OF CONTENTS

1. N-DSSZ-412/22 Abstract of a contribution from a domestic or an international conference (originally AFG, AFK, AFH, AFL).....	3
2. N-DSSZ-505/22 Bachelor's thesis reviewer.....	4
3. N-DSSZ-504/22 Bachelor's thesis supervisor.....	5
4. N-DSSZ-414/22 Completing an long-term ERASMUS+ internship (minimum 60 days).....	6
5. N-DSSZ-415/22 Completion of SAIA/NŠP internship program or other equivalent (minimum 30 days).....	7
6. N-DSSZ-416/22 Completion of a short-term foreign internship (15-30 days, and related to the topic of the PhD thesis).....	8
7. N-DTES-010/22 Deep-marine depositional systems of the Western Carpathians.....	9
8. N-DSSZ-303/22 Defence of dissertation thesis (state exam).....	11
9. PriF-DSSZ-001/22 Dissertation 1.....	12
10. PriF-DSSZ-002/22 Dissertation 2.....	13
11. PriF-DSSZ-003/22 Dissertation 3.....	14
12. PriF-DSSZ-004/22 Dissertation 4.....	15
13. PriF-DSSZ-005/22 Dissertation 5.....	17
14. PriF-DSSZ-006/22 Dissertation 6.....	19
15. PriF-DSSZ-007/22 Dissertation 7.....	20
16. N-DGPA-400/22 Dissertation exam (state exam).....	21
17. N-DSSZ-400/22 Grant CU or Grant SAS or equivalent grant.....	23
18. N-DSSZ-413/22 Intellectual Property Rights Document (originally AGJ).....	24
19. N-DTES-009/22 Karbonátové depozičné systémy Západných Karpát.....	25
20. N-DTES-008/22 Kontinentálne a plytkomorské siliciklastické depozičné systémy Západných Karpát.....	27
21. N-DSSZ-508/22 Other activities.....	29
22. N-DSSZ-501/22 P1 Pedagogical output as a whole (originally ACA, ACB, BCI, BCB).....	30
23. N-DSSZ-503/22 P2 Pedagogical output as a part (originally BCK).....	31
24. N-DSSZ-502/22 P2 Pedagogical output as part (originally ACC, ACD).....	32
25. N-DSSZ-507/22 Pedagogical activity (4 hours/WS and 4 hours/SS) or alternative pedagogical work.....	33
26. N-DSSZ-026/22 Professional English 1.....	34
27. N-DTES-003/22 Sedimentary geology 1.....	36
28. N-DTES-004/22 Sedimentary geology 2.....	38
29. N-DSSZ-500/22 Selected topics from university pedagogy for non-teachers.....	40
30. N-DSSZ-022/22 Slovak for Foreign Doctoral Students 1.....	41
31. N-DSSZ-023/22 Slovak for Foreign Doctoral Students 2.....	43
32. N-DSSZ-024/22 Slovak for Foreign Doctoral Students 3.....	45
33. N-DSSZ-028/22 Slovak for Foreign Doctoral Students 4.....	47
34. N-DTES-007/22 Software Applications in Tectonic Geology.....	49
35. N-DSSZ-506/22 Supervisor of the SSC contribution.....	51
36. N-DTES-001/22 Tectonic Geology 1.....	52
37. N-DTES-002/22 Tectonic Geology 2.....	54
38. N-DSSZ-404/22 V1 Scientific output as a whole - ESB monograph (originally AAA, ABA), individual authorship less than 3 AH.....	56
39. N-DSSZ-401/22 V1 Scientific output as a whole – ESB monograph (originally AAA, ABA), individual authorship share ≥ 3 AH.....	57

40. N-DSSZ-405/22 V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship less than 3 AH.....	58
41. N-DSSZ-402/22 V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship share ≥ 3 AH.....	59
42. N-DSSZ-411/22 V2 Scientific output as part of ESB, collection - contribution in peer reviewed scientific collection, monograph (originally AEC, AFA, AFC, AED).....	60
43. N-DSSZ-406/22 V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship less than 3 AH.....	61
44. N-DSSZ-403/22 V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship ≥ 3 AH.....	62
45. N-DSSZ-410/22 V3 Scientific output in a journal outside the index databases (originally ADE, ADF).....	63
46. N-DSSZ-407/22 V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/ Q1 – Q2 (originally ADC, ADD, ADM, ADN), first or corresponding author.....	64
47. N-DSSZ-408/22 V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/ Q3- Q4 (originally ADC, ADD, ADM, ADN), first or corresponding author.....	65
48. N-DSSZ-409/22 V3 Scientific output in the journal registered by CCC, WOS, SCOPUS - JCR/ Q1 – Q2 – Q3 - Q4 (originally ADC, ADD, ADM, ADN), co-author.....	66
49. N-DTES-006/22 Western Carpathians and adjacent areas Regional Geology.....	67
50. N-DTES-005/22 Western Carpathians and adjacent areas tectonic and structural development.....	69

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-412/22			Course title: Abstract of a contribution from a domestic or an international conference (originally AFG, AFK, AFH, AFL)				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 4							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution Total number of evaluated students: 1026							
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:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-505/22				Course title: Bachelor's thesis reviewer			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 3							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

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

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-414/22				Course title: Completing an long-term ERASMUS+ internship (minimum 60 days)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 20							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	97,73	0,0	0,0	0,0	0,0	0,0	2,27
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

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

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-416/22				Course title: Completion of a short-term foreign internship (15-30 days, and related to the topic of the PhD thesis)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 7							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-010/22	Course title: Deep-marine depositional systems of the Western Carpathians
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information study of literature related to the topic of the PhD. thesis	
Number of credits: 3	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements: consultations and discussion on the studied literature	
Learning outcomes: Knowledge about regional extent and genesis of deep-marine facies of sedimentary rocks and their mutual relationships depending on environment, transport conditions and deposition. Examples of deep-marine, siliciclastic depositional systems of the Western Carpathians and adjacent areas. Origin, geodynamic position and tectonics of flysch basins and their paleogeographic models.	
Class syllabus: History of deep-marine sediments research, sediments of gravity flows, deep-marine bottom currents, pelagic and hemipelagic sediments, canyon and channel sediments, sediments of lobes and fans, depositional systems in the Central Carpathian Paleogene Basin and in the Flysch Belt (Krosno Basin, Magura Basin), determination of basin type with respect to the geodynamic position and tectonic regime, sequence stratigraphy.	
Recommended literature: Shanmugam G. 2006: Deep-Water Processes and Facies Models: Implications for Sandstone Petroleum Reservoirs, Volume 5 (Handbook of Petroleum Exploration and Production). Elsevier, 496s. Kováč, M. - Michalík, J. - Plašienka, D. - Maťo, Ľ.: Alpínsky vývoj Západných Karpát. – Brno, Masarykova univerzita, 1993. - 96 s. Kováč, M.- Plašienka, D. - Aubrecht, R.- Halouzka, R.- Krejčí, O. - Kronome, B. - Nagymarosy, A. - Přichystal, A. - Wagneich, M.: Geological structure of the Alpine-Carpathian-Pannonian junction and the neighbouring slopes of the Bohemian Massif. - Bratislava : Comenius University, 2002. - 84 s. Starek D. et al. 2013: Large-volume gravity flow deposits in the Central Carpathian Paleogene Basin (Orava region, Slovakia): evidence for hyperpycnal river discharge in deep-sea fans. <i>Geologica Carpathica</i> , 64, 4, 305-326. Oszczytko, N., 2006: Late Jurassic-Miocene evolution of the Outer Carpathian fold-and-thrust belt and its foredeep basin (Western Carpathians, Poland). <i>Geological Quarterly</i> , 50,1,169–194. Actual publications recommended by the teacher.	

Languages necessary to complete the course: Slovak in combination with English (study literature in English)							
Notes: the subject is taught only in winter semester							
Past grade distribution 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
Lecturers: prof. RNDr. Roman Aubrecht, Dr.							
Last change: 20.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DSSZ-303/22	Course title: Defence of dissertation thesis
Number of credits: 30	
Educational level: III.	
State exam syllabus:	
Last change: 06.09.2022	
Approved by: prof. RNDr. Roman Aubrecht, Dr.	

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/PriF-DSSZ-001/22				Course title: Dissertation 1			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 5							
Recommended semester: 1.							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change: 06.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/PriF-DSSZ-002/22				Course title: Dissertation 2			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 5							
Recommended semester: 2.							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change: 06.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/PriF-DSSZ-003/22				Course title: Dissertation 3			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 5							
Recommended semester: 3.							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change: 06.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/PriF-DSSZ-004/22	Course title: Dissertation 4
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 4.	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
Recommended literature: 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.	

Languages necessary to complete the course:

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: 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

Lecturers:**Last change:** 10.10.2022**Approved by:** prof. RNDr. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/PriF-DSSZ-005/22	Course title: Dissertation 5
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
Recommended literature: 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.	

Languages necessary to complete the course:

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.

Notes:**Past grade distribution**

Total number of evaluated students: 9

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:**Last change:** 06.10.2022**Approved by:** prof. RNDr. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/PriF-DSSZ-006/22				Course title: Dissertation 6			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 5							
Recommended semester: 6.							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/PriF-DSSZ-007/22				Course title: Dissertation 7			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 5							
Recommended semester: 7.							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DGPA-400/22	Course title: Dissertation exam
Number of credits: 15	
Educational level: III.	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
State exam syllabus:	
Recommended literature: 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.	
Languages necessary to complete the course:	

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

Last change: 19.10.2022

Approved by: prof. RNDr. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-400/22				Course title: Grant CU or Grant SAS or equivalent grant			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 12							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-413/22				Course title: Intellectual Property Rights Document (originally AGJ)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 10							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-009/22	Course title: Karbonátové depozičné systémy Západných Karpát
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information study of literature related to the topic of the PhD. thesis	
Number of credits: 3	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: consultations and discussion on the studied literature	
Learning outcomes: Knowledge of various depositional environments of carbonates and processes which influence deposition, as well as resulting products of the depositional process. Relation of carbonate deposition to various conditions in the geotectonic evolution of the area. Application of this knowledge to Mesozoic and Tertiary examples from the Western Carpathians.	
Class syllabus: Carbonate sedimentary environments in continental in continental setting. Sedimentary environments of shallow-marine carbonate platforms. Deep- marine carbonate sedimentary environments from neritic shelf environments to deep-marine trenches. Triassic carbonate platforms of the Western Carpathians and their relations to areas with pelagic sedimentation. Breakup of carbonate shelf and differentiated trough-elevation deposition in the Jurassic period. Mixed siliciclastic-carbonate sedimentation during the Cretaceous-Paleogene convergence in Tethys. Various types of carbonate sedimentary environments in Neogene basins.	
Recommended literature: Tucker M.E. & Wright V.P., 1990: Carbonate sedimentology. Blackwell Scientific Publications, 482 s. Mišík M., Chlupáč I. & Cicha I., 1985: Stratigrafická a historická geológia. Vyd. SPN, Bratislava, 570 s. Mišík M. & Reháková D., 2007: Dolomity, dolomitizácia a dedolomitizácia v horninách Západných Karpát. Veda, 82 s. Mišík M. & Reháková D., 2009: Vápence Slovenska. I. Časť – Biohermné, krinoidové, sladkovodné a onkoidové vápence. Veda, 186 s. Mišík M., 1966: Microfacies of the Mesozoic and Tertiary limestones of the West Carpathians. Vyd. SAV Bratislava, 269 s.	

Actual publications recommended by the teacher.							
Languages necessary to complete the course: Slovak in combination with English (study literature in English)							
Notes: the subject is taught only in winter semester							
Past grade distribution 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
Lecturers: prof. RNDr. Roman Aubrecht, Dr.							
Last change: 20.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-008/22	Course title: Kontinentálne a plytkomorské siliciklastické depozičné systémy Západných Karpát
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information study of literature related to the topic of the PhD. thesis	
Number of credits: 3	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: consultations and discussion on the studied literature	
Learning outcomes: Knowledge about regional extent of continental and shallow-marine siliciclastic deposits in the Western Carpathians and adjacent areas. Knowledge of criteria how to distinguish their depositional systems in the field. Origin, geodynamic position and tectonics influencing molasse basin forming and their paleogeographic models.	
Class syllabus: Determination of basin types with respect to geodynamic position and tectonic regime, depositional systems of alluvial environments, deltas, siliciclastic depositional systems of shelf and deep seas, sequence stratigraphy, models of siliciclastic depositional systems – sedimentary basin analysis.	
Recommended literature: Nichols, G. 1999: Sedimentology and stratigraphy, Blackwell, Oxford Einsele, G. 1992: Sedimentary basins, Springer Verlag, Berlin Reading, H. G., 1986: Sedimentary Enviroments and Facies. Blackwell, New York. Kováč, M.: Geodynamický, paleogeografický a štruktúrny vývoj Karpatsko-panónskeho regiónu v miocéne : Nový pohľad na neogénne panvy Slovenska Bratislava : Veda, 2000. - 204 s. ISBN 80-224-0638-4 Kováč, M. - Michalík, J. - Plašienka, D. - Maťo, Ľ.: Alpínsky vývoj Západných Karpát. – Brno, Masarykova univerzita, 1993. - 96 s. Kováč, M.- Plašienka, D. - Aubrecht, R.- Halouzka, R.- Krejčí, O. - Kronome, B. - Nagymarosy, A. - Přichystal, A. - Wagreich, M.: Geological structure of the Alpine-Carpathian-Pannonian junction and the neighbouring slopes of the Bohemian Massif. - Bratislava : Comenius University, 2002. - 84 s. Actual publications recommended by the teacher.	

Languages necessary to complete the course: Slovak in combination with English (study literature in English)							
Notes: the subject is taught only in winter semester							
Past grade distribution 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
Lecturers: doc. RNDr. Michal Šujan, PhD., doc. RNDr. Daniel Pivko, PhD.							
Last change: 20.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-508/22				Course title: Other activities			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 1							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-501/22				Course title: P1 Pedagogical output as a whole (originally ACA, ACB, BCI, BCB)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 20							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-503/22				Course title: P2 Pedagogical output as a part (originally BCK)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 10							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-502/22				Course title: P2 Pedagogical output as part (originally ACC, ACD)			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 15							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-507/22				Course title: Pedagogical activity (4 hours/WS and 4 hours/SS) or alternative pedagogical work			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 2							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-026/22	Course title: Professional English 1
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 1., 3.	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
Recommended literature: 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	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution							
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
Lecturers: Mgr. Aneta Barnes, RNDr. Tatiana Slov�kov�, PhD.							
Last change: 03.10.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF.KGP/N-DTES-003/22				Course title: Sedimentary geology 1			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Type, volume, methods and workload of the student - additional information study of literature related to the topic of the PhD. thesis							
Number of credits: 5							
Recommended semester: 1.							
Educational level: III.							
Prerequisites:							
Course requirements: consultations and discussion on the studied literature							
Learning outcomes: Knowledge about genesis of various facies of sedimentary rocks and their mutual relations depending on environment, transport conditions and deposition. Sedimentary analysis of siliciclastic depositional systems. Application of sequence stratigraphic methods and basin analysis methods.							
Class syllabus: Determination of basin types with respect to geodynamic position and tectonic regime, depositional systems of alluvial environments, deltas, siliciclastic depositional systems of shelf and deep seas, sequence stratigraphy, models of siliciclastic depositional systems – sedimentary basin analysis.							
Recommended literature: Nichols, G. 1999: Sedimentology and stratigraphy, Blackwell, Oxford Einsele, G. 1992: Sedimentary basins, Springer Verlag, Berlin Reading, H. G., 1986: Sedimentary Enviroments and Facies. Blackwell, New York.							
Languages necessary to complete the course: Slovak in combination with English (study literature in English)							
Notes: the subject is taught only in winter semester							
Past grade distribution Total number of evaluated students: 4							
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: prof. RNDr. Roman Aubrecht, Dr.							

Last change: 19.09.2022

Approved by: prof. RNDr. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-004/22	Course title: Sedimentary geology 2
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information study of literature related to the topic of the PhD. thesis	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: consultations and discussion on the studied literature	
Learning outcomes: Knowledge about genesis of various carbonate facies and their mutual relationship, as well as their dependence on environment, conditions of origin eventual transport and deposition. Utilization of microfacies analysis for identification of individual environments and zones. Diagenetic processes, origin of dolomites and models of dolomitization. Sedimentary analysis of carbonate depositional systems. Application of sequence stratigraphic methods and basin analysis methods.	
Class syllabus: Geological factors influencing carbonate depositional systems, deposition in shallow-water and deep-water environment. Resedimentation of carbonate rocks, transport flows. Principal components of limestones (bioclasts, ooids, oncoids, peloids, intraclasts, ...), classification of limestones. Importance of carbonate components in microfacies and sedimentological interpretation of the environment, depositional models.	
Recommended literature: Nichols, G. 1999: Sedimentology and stratigraphy, Blackwell, Oxford Einsele, G. 1992: Sedimentary basins, Springer Verlag, Berlin Reading, H. G., 1986: Sedimentary Enviroments and Facies. Blackwell, New York. Tucker, E. M. & Wright, P.V. 1990: Carbonate Sedimentology, p. 482, Blackwell Scien. Publ. Tucker, E. M. 2008: Sedimentary Petrology, p. 262, Blackwell Scien. Publ.; Flügel, E. 2004: Microfacies of Carbonate Rocks, (analysis, interpretation, application) p. 976 Springer Verlag.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes:	

the subject is taught only in winter semester							
Past grade distribution							
Total number of evaluated students: 2							
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: prof. RNDr. Roman Aubrecht, Dr.							
Last change: 19.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

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

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-022/22	Course title: Slovak for Foreign Doctoral Students 1
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 3	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning 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 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.	
Class syllabus: 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: https://uniba.sk/krizom-krazom Worksheets, website: https://slovake.eu/sk	
Recommended literature: 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: https://uniba.sk/krizom-krazom Worksheets, website: https://slovake.eu/sk	

Languages necessary to complete the course: 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: 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
Lecturers: Mgr. Karin Rózsová Wolfová							
Last change: 28.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-023/22	Course title: Slovak for Foreign Doctoral Students 2
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 2	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
Recommended literature: Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook Audio program: https://uniba.sk/krizom-krazom Worksheets are prepared by the course instructor. Portal: https://slovae.eu/sk	
Languages necessary to complete the course: 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. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-024/22	Course title: Slovak for Foreign Doctoral Students 3
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 2	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning 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. Intended for levels A1-A2, beginner to pre-intermediate	
Class syllabus: 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.	
Recommended literature: Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1, A2 Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook Audio program: https://uniba.sk/krizom-krazom Worksheets are prepared by the course instructor. Portal: https://slovak.eu/sk	
Languages necessary to complete the course: 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. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-028/22	Course title: Slovak for Foreign Doctoral Students 4
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Number of credits: 2	
Recommended semester:	
Educational level: III.	
Prerequisites:	
Course requirements: 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.	
Learning outcomes: 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.	
Class syllabus: 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.	
Recommended literature: 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: https://uniba.sk/krizom-krazom Worksheets, website: https://slovake.eu/sk	
Languages necessary to complete the course:	

Language of instruction: Slovak in combination with English (the study literature is in Slovak).							
Notes:							
Past grade distribution 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
Lecturers: Mgr. Karin Rózsová Wolfová							
Last change: 18.10.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-007/22	Course title: Software Applications in Tectonic Geology
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information independent work with software applications, 2 hours per week consultations with teachers and supervisor; attendance form for daily study, distance form for external study.	
Number of credits: 3	
Recommended semester: 3.	
Educational level: III.	
Prerequisites:	
Course requirements: During the semester, 2 projects with 25 points will be required to develop and passing the final exam with 50 points.	
Learning outcomes: After passing the subject, students will actively work with geographic information systems and relation databases. They will be able to solve problems of geological maps compilation, their practical utilization, structural data management and creation of structural databases	
Class syllabus: Advanced techniques in Python environment; Mathematic apparatus in tectonic geology; Analysis of spatial data, principles of vector analysis; Statistics of planar oriented data; Statistic of spatial oriented data; Advanced technical works with databases and data management; Data conversion between various formats; Vector data management; Data conversion and interpolation (vectorization and interpolation of raster and vector data); Satellite and aerial remote sensing management; Digitalization of maps (digitalization, vectorization, attribute management); Visualization of maps (3D visualization, animation); Map output (finalization of maps and their publication).	
Recommended literature: Davis D.E., 2000: GIS pro každého - Vytváříme mapy na počítači. Computer Press. 120 s. Twiss R.J., Moores E.M., 2006: Structural geology. W. H. Freeman; Second Edition edition, 532 s. Fisher, N.I., 1993. Statistical Analysis of Circular Data. Cambridge University Press. Fisher, N.I., Lewis, T. and Embleton, B.J.J., 1986. Statistical Analysis of spherical data. Cambridge University Press. Rajlich, P., 1980. Analýza orientovaných dat v geologii. ÚUG Praha.	
Languages necessary to complete the course:	

Slovak in combination with English (study literature in English)							
Notes:							
Past grade distribution							
Total number of evaluated students: 4							
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: doc. Mgr. Rastislav Vojtko, PhD.							
Last change: 19.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-506/22				Course title: Supervisor of the SSC contribution			
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 4							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-001/22	Course title: Tectonic Geology 1
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information self-study of requisite literature, 2 hours per week consultations with teachers and supervisor; attendance form for daily study, distance form for external study.	
Number of credits: 5	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: Requirements to pass the subjects is screening evaluation – submission of studied literature conspects according to the instructions of teachers and supervisor.	
Learning outcomes: Augmenting of knowledge about the principal ways of rock deformation and about structural associations of various tectonic environments. Managing with English structural-geological and tectonic terminology.	
Class syllabus: Structural geology general and systematic: physical principles of deformation of geological materials – stress-deformation relation, deformation mechanisms and regimes, deformation rate, types of tectonites, thermomechanics, micro-rheology and microtectonics. Dynamic and static recrystallization, relations between deformation and metamorphism. Formal and cellular preferential orientation of minerals, foliation, lineation, shear zones, dilatation structures, fluids. Fractures and faults, Mohr's circle, folds. Structural, deformational, kinematic and dynamic (paleostress) analysis – methods and utilization. Relations between micro-, meso- and macrostructures. Structural and tectonic regimes and their deformation record – extension, compression, transpression, transtension, gravitational isostasy, subsidence, uplift.	
Recommended literature: Jaroš J. a Vachtl J., 1992: <i>Strukturní geologie</i> . Academia, Praha, 437 s. Marko F. a Jacko S., 1999: <i>Štruktúrna geológia I (všeobecná a systematická)</i> . Harlequin, Košice, 180 s. Passchier C.W. & Trouw R.A.J., 1996: <i>Microtectonics</i> . Springer, Berlin, 289 p. Ramsay J.G. & Huber M.I., 1983: <i>The techniques of modern structural geology</i> . Vol. 1: <i>Strain analysis</i> . Academic Press, London, 307 p.	

<p>Ramsay J.G. & Huber M.I., 1987: The techniques of modern structural geology. Vol. 2: Folds and fractures. Academic Press, London, 393 p. Suppe J., 1985: Principles of structural geology. Prentice-Hall, Englewood Cliffs, 537 p. Articles published in peer-reviewed journals according to choice of the teachers and supervisor.</p>							
<p>Languages necessary to complete the course: Slovak in combination with English (study literature in English)</p>							
<p>Notes:</p>							
<p>Past grade distribution Total number of evaluated students: 6</p>							
A	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
<p>Lecturers: prof. RNDr. Dušan Plašienka, DrSc., doc. RNDr. Jozef Hók, CSc., doc. Mgr. Rastislav Vojtko, PhD., doc. RNDr. František Marko, CSc.</p>							
<p>Last change: 19.09.2022</p>							
<p>Approved by: prof. RNDr. Roman Aubrecht, Dr.</p>							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-002/22	Course title: Tectonic Geology 2
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information self-study of requisite literature, 2 hours per week consultations with teachers and supervisor; attendance form for daily study, distance form for external study.	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Requirements to pass the subjects is screening evaluation – submission of studied literature conspects according to the instructions of teachers and supervisor.	
Learning outcomes: Achievement of complex knowledge about the Earth structure, origin of tectonic forces and about the physical subsistence of tectonic phenomena and processes. Managing with English structural-geological and tectonic terminology.	
Class syllabus: Geodynamics – Earth structure, heat and heat-flow, convection flow, interaction of the lithosphere and Earth mantle, macro-rheology, thermobarometry, P-T-t paths and their modelling, isostasy and dynamic geomorphology. Plate tectonics, geodynamic processes in the lithosphere, their modelling and rock material and structural record – hot spots, rifting, spreading, subduction, accretion, collision, collapse. Accretional, colisional and itra- plate orogens. Driving forces and stress in the lithosphere, seismicity, neotectonics. Tectonics of terrestrial planets, impact structures.	
Recommended literature: Engelder T., 1993: Stress regimes in the lithosphere. Princeton Univ. Press, 457 p. Davies G.F., 1999: Dynamic Earth. Plates, plumes and mantle convection. Cambridge Univ. Press, 458 p. Hancock P.L. (ed.), 1994: Continental deformation. Pergamon Press, Oxford, 421 p. Park R.G., 1988: Geological structures and moving plates. Blackie, Glasgow, 337 p. Ranalli G., 1995: Rheology of the Earth. 2nd edition, Chapman & Hall, London, 568 p. Stüve K., 2002: Geodynamics of the lithosphere. An introduction. Springer, Berlin, 449 p. Turcotte D.L. & Schubert G., 2002: Geodynamics. Cambridge Univ. Press, 456 p. Articles published in peer-reviewed journals according to choice of the teachers and supervisor.	
Languages necessary to complete the course:	

Slovak in combination with English (study literature in English)							
Notes:							
Past grade distribution							
Total number of evaluated students: 4							
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: prof. RNDr. Dušan Plašienka, DrSc., doc. RNDr. Jozef Hók, CSc., doc. Mgr. Rastislav Vojtko, PhD., doc. RNDr. František Marko, CSc.							
Last change: 19.09.2022							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-404/22			Course title: V1 Scientific output as a whole - ESB monograph (originally AAA, ABA), individual authorship less than 3 AH				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 20							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-401/22			Course title: V1 Scientific output as a whole – ESB monograph (originally AAA, ABA), individual authorship share ≥ 3 AH				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 30							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-405/22			Course title: V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship less than 3 AH				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 20							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-402/22			Course title: V2 Scientific output as part - study in ESB or collection (originally AAB, ABA, ABB), individual authorship share ≥ 3 AH				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 30							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-411/22			Course title: V2 Scientific output as part of ESB, collection - contribution in peer reviewed scientific collection, monograph (originally AEC, AFA, AFC, AED)				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 6							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

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

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-403/22			Course title: V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship ≥ 3 AH				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 30							
Recommended semester:							
Educational level: III.							
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	ABS	B	C	D	E	FX	NEABS
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

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

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-407/22			Course title: V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 (originally ADC, ADD, ADM, ADN), first or corresponding author				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 50							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-408/22			Course title: V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q3- Q4 (originally ADC, ADD, ADM, ADN), first or corresponding author				
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 40							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026							
University: Comenius University Bratislava							
Faculty: Faculty of Natural Sciences							
Course ID: PriF/N-DSSZ-409/22		Course title: V3 Scientific output in the journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 – Q3 - Q4 (originally ADC, ADD, ADM, ADN), co-author					
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning							
Number of credits: 20							
Recommended semester:							
Educational level: III.							
Prerequisites:							
Course requirements:							
Learning outcomes:							
Class syllabus:							
Recommended literature:							
Languages necessary to complete the course:							
Notes:							
Past grade distribution 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
Lecturers:							
Last change:							
Approved by: prof. RNDr. Roman Aubrecht, Dr.							

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-006/22	Course title: Western Carpathians and adjacent areas Regional Geology
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information self-study of requisite literature, 2 hours per week consultations with teachers and supervisor; attendance form for daily study, distance form for external study.	
Number of credits: 3	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Requirements to pass the subjects is screening evaluation – submission of studied literature conspects according to the instructions of teachers and supervisor, final oral exam.	
Learning outcomes: Students achieve comprehensive knowledge about the geological structure of the Western Carpathians, augmented in geophysical image of the crust, principles of tectonic division of the Alpine belts and principles of compilation of tectonic maps.	
Class syllabus: Brief annotation of the subject: Structure of the West Carpathian crust and lithosphere – regional geophysics (gravimetry, reflection and refraction seismics, magnetics, magnetotellurics, heat flow), anomalies and discontinuities. Paleomagnetism – translations and rotations of the Alpine belt megaunits. Structure of the pre-Tertiary basement of the Central and Internal Western Carpathians. Relief and morphological manifestations of tectonic structures. Tectonic division of the Western Carpathians and the adjacent orogenic systems, principles of definition of tectonic units and compilation of tectonic and structural maps. regional tectonics of the European Alpides and their foreland. Tectonic synthesis of the Western Carpathians – tectonic cycles, periods and regional tectonic phases, deformation stages, isotectonic zones.	
Recommended literature: Šefara J. & Bielik M., 2009: Geofyzikálny obraz Západných Karpát a ich okolia: geologická interpretácia geofyzikálnych meraní regionálneho a hlbinného charakteru. Univerzita Komenského, Bratislava, 172 s. Maheľ M. (ed.), 1974: Tectonics of the Carpathian-Balkan regions and their foreland. Explanation to the tectonic map 1:1000000. Geol. Inst. D. Stur Bratislava, 453 p.	

Horváth F. & Galácz A. (eds), 2006: The Carpathian-Pannonian region. A review of Mesozoic-Cenozoic stratigraphy and tectonics. Vol. 1+2, Hantken Press, Budapest, 624 p. McCann T. (ed.), 2008: The geology of Central Europe. Vol. 1+2, The Geological Society of London, 1449 p. Vozár J. (ed.): 2010: Variscan and Alpine terranes of the Circum-Pannonian region. Alov. Acad. Sci., Geol. Inst., 233 p.

Fusán O., Biely A., Ibrmajer J., Plančár J. & Rozložník L., 1987: Podložie terciéru vnútorných Západných Karpát. GÚDŠ Bratislava, 123 s.

Suk M., Reichwalder P., Šefara J. & Schenk V., 1996: Regionalizace v geologických vědách. Folia Fac. Sci. Nat. Univ. Mas. Brun., Geologia 38, 227 s.

Kováč M., 2000: Geodynamický, paleogeografický a štruktúrny vývoj karpatsko-panónskeho regiónu v miocéne: Nový pohľad na neogénne panvy Slovenska. Veda, Bratislava, 202 s.

Regional tectonic literature (Alps, Dinarides, Eastern and South Carpathians, Bohemian Massif, North-European Platform)

Languages necessary to complete the course:

Slovak in combination with English (study literature in English)

Notes:

Past grade distribution

Total number of evaluated students: 4

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: prof. RNDr. Dušan Plašienka, DrSc., doc. RNDr. Jozef Hók, CSc., doc. Mgr. Rastislav Vojtko, PhD., doc. RNDr. Michal Šujan, PhD., doc. RNDr. Daniel Pivko, PhD.

Last change: 19.09.2022

Approved by: prof. RNDr. Roman Aubrecht, Dr.

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KGP/N-DTES-005/22	Course title: Western Carpathians and adjacent areas tectonic and structural development
Educational activities: Type of activities: Number of hours: per week: per level/semester: Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information self-study of requisite literature, 2 hours per week consultations with teachers and supervisor; attendance form for daily study, distance form for external study.	
Number of credits: 3	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: Requirements to pass the subjects is screening evaluation – submission of studied literature conspects according to the instructions of teachers and supervisor, final oral exam.	
Learning outcomes: Completion of knowledge about the West Carpathian geology and tectonics. Students achieve wide knowledge about tectonic-structural evolution of the Western Carpathians and adjacent areas.	
Class syllabus: Tectonic division of the Western Carpathians, principles of definition of tectonic units and compilation of tectonic and structural maps. Tectonic synthesis – tectonic cycles, periods and regional tectonic phases, deformation stages, isotectonic zones. Tectonic and structural evolution of the Western Carpathians – relics of pre-Variscan events, Variscan cycle, Alpine cycle: Slaná, Bodva, Ipeľ, Váh and Danube epochs. Origin, growth and destruction of the West Carpathian orogenic wedge. Confrontation of the tectonic evolution of the Western Carpathians with structure and evolution of other segments of the European Alpides and their foreland.	
Recommended literature: Horváth F. & Galácz A. (eds), 2006: The Carpathian-Pannonian region. A review of Mesozoic-Cenozoic stratigraphy and tectonics. Vol. 1+2, Hantken Press, Budapest, 624 p. McCann T. (ed.), 2008: The geology of Central Europe. Vol. 1+2, The Geological Society of London, 1449 p. Vozár J. (ed.): 2010: Variscan and Alpine terranes of the Circum-Pannonian region. Alov. Acad. Sci., Geol. Inst., 233 p. Grecula P., Hovorka D. & Putiš M. (eds), 1997: Geological evolution of the Western Carpathians. Mineralia Slov. – Monogr., Bratislava, 370 p. Plašienka D., 1999: Tektonochronológia a paleotektonický model jursko-kriedového vývoja centrálnych Západných Karpát. Veda, Bratislava, 127 s.	

Plašienka D., 2002: Alpidná tektonická progradácia a jej štruktúrny záznam v jednotkách Západných Karpát. Manuskript, 149 s.
 Rakús M. (ed.), 1998: Geodynamic development of the Western Carpathians. GSSR, D. Štúr Publ., Bratislava, 290 p.
 Suk M., Reichwalder P., Šefara J. & Schenk V., 1996: Regionalizace v geologických vědách. Folia Fac. Sci. Nat. Univ. Mas. Brun., Geologia 38, 227 s.
 Regional tectonic literature (Alps, Dinarides, Eastern and South Carpathians, Bohemian Massif, North-European Platform)

Languages necessary to complete the course:

Slovak in combination with English (study literature in English)

Notes:

Past grade distribution

Total number of evaluated students: 4

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: prof. RNDr. Dušan Plašienka, DrSc., doc. RNDr. Jozef Hók, CSc., doc. Mgr. Rastislav Vojtko, PhD., doc. RNDr. František Marko, CSc.

Last change: 19.09.2022

Approved by: prof. RNDr. Roman Aubrecht, Dr.