

Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023							
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: 423							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 140							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 50							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 19							
A	ABS	B	C	D	E	FX	NEABS
0,0	94,74	0,0	0,0	0,0	0,0	0,0	5,26
Lecturers:							
Last change:							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 25							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 47							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 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: 8	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 12.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 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: 5	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 18.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 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: 7	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 18.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 2	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 10.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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	
Type, volume, methods and workload of the student - additional information Type, scope and methods of instruction: No specifications concerning the degree of study (choice of methods – in class, distant learning, or a combination of both)	
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: 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: 4	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change: 06.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 3	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change:	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/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: 5	
ABS	NEABS
100,0	0,0
Lecturers:	
Last change:	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DSSZ-303/22	Course title: Dissertation defense
Number of credits: 30	
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 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.	
Learning outcomes: 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 studies.	
Class syllabus: 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.	
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: 24.10.2022	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-400/22	Course title: Dissertation examination
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:

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 103							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-016/22	Course title: Landscape Geomatics
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 Form of Study: Seminars (S) Number of contact hours: 2 per week: 2S per level/semester: 24	
Number of credits: 5	
Recommended semester: 1., 3.	
Educational level: III.	
Prerequisites:	
Course requirements: Performance of the tasks (continuous compounding). Complex specification of geoinformatics project for PhD Thesis: spatial data collection methods, geographical database modeling, spatial analytical methods, methods of distribution of geographical information.	
Learning outcomes: The aim of the course is to study new concepts and methods of collection, integration, modeling, cartographic interpretation, cartographic representation and interoperability of geographical information about the country. The course presents the latest trends in landscape mapping and modeling in the sub-fields of geodesy, cartography, remote sensing, digital photogrammetry, geographic information science, GPS (global position systems). The course introduces the tools of modeling a geographical database, specific methods of spatial analysis, as well as methods of cartographic modeling of geographical information. The course focuses on methods and tools for interoperability and harmonization of geographic information in spatial information infrastructures.	
Class syllabus: S1-S3 Concept of geodetic and cartographic bases of Slovakia. The concept of creating, updating and managing the basic GIS database. New geodetic, geophysical and cartographic methods and tools for collecting and processing geographic information. Methods of uniform positional localization of geographic information S4-S6 Scanning, radiolocation and lasers can methods for landscape mapping in remote sensing (RS). Digital photogrammetry and landscape mapping. Methods of interpretation of landscape objects from raster data structures. Mapping and interpretation of three-dimensional landscape objects. Remote sensing methods and data collection for spatial landscape modeling. S7-S8. Geographic information system (GIS) as an element of country management. GIS structure, integrity, interoperability and implementation. Design of geographic databases. Metainformation catalogs.	

S9-S10. Design and implementation of spatial data processing models in selected GIS environments. Creation of diagrams of processing complex geographical tasks. Realization of experiments using ModelBuilder (ArcGIS) and MacroModeler (Idrisi) tools. S11-S12 Spatial information infrastructures and interactive geographical communication in the WEB environment. Geographic information services. Tools for discovery, distribution and integration of geographic information.					
Recommended literature: ArcGIS GIS documentation. GIS Idrisi documentation. MIČIETOVÁ, E. et al .: Tools for integration and distributed use of geospatial information. Bratislava: Elita, 2008. 920 pages. ISBN 978-80-969902-0-7. MIČIETOVÁ, E., KOŽUCH, M. (ed.): Specialized information technologies in natural science research: Geoinformation technologies. Specialized Information Technologies in Natural Science research: Geoinformation Technologies. 2008. ISBN 978-80-8044-081-7. The specific literature will be suggested for the individual projects of students.					
Languages necessary to complete the course: Slovak in combination with English (study literature in English)					
Notes: The subject is offered only in winter terms					
Past grade distribution Total number of evaluated students: 0 <table border="1"> <thead> <tr> <th>ABS</th><th>NEABS</th></tr> </thead> <tbody> <tr> <td>0,0</td><td>0,0</td></tr> </tbody> </table>		ABS	NEABS	0,0	0,0
ABS	NEABS				
0,0	0,0				
Lecturers: doc. RNDr. Eva Mičietová, CSc.					
Last change: 28.09.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-010/22	Course title: Methods of Scientific Work
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 1.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of the detailed project of dissertation and a concept of scientific paper prepared by student as the first and corresponding author. Performance of the tasks (continuous compounding). A public presentation of the thesis project is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with systematic idea of basis of scientific work and will apply it in preparation of detailed project of their dissertation thesis and conception of their scientific paper.	
Class syllabus: 1. L. What is the Science? (Knowledge and science, neopositivism, theory, hypothesis, speculation, science and myth, experimental (empiric) sciences, geosciences and exact sciences, technical and scientific work). S. Content, requirements and time-table of seminars. 2. L. Theme and goals of the work (theory, empiric research and methods, novelty and horizon of knowledge. Basic journals, publication schemes, publishers in the field of physical geography and geoinformatics. S. Definition of theme and goals of: a) dissertation thesis, b) first scientific paper. 3. L. Scientific method (scientific hypothesis, its verification/falsification, scientific experiment and experiments in geography: design, realization, evaluation, interpretation, various character and elaboration of data). S. State of the art for thesis and paper (list of 20 scientific papers as a minimum) 4. L. Ethics of the scientific work (contentu ethics – ethical and non-ethical themes, formal ethics – quotations, cooperation and co-authorship). S. Concept (structure and basic content) of the first scientific paper 1	

5. L. Publication strategy (choice of journal and adapting of content and form to it, language aspects, formulation of abstract, discussion and conclusions).
 S. Preparation of early concept of the dissertation project.

6. L. Author in the review process (how deals with reviews, modification of manuscript and answer to editor and reviewers).
 S. Concept (structure and basic content) of the first scientific paper 2

7. L. Presentation of results of scientific work on scientific conference (oral and poster presentation, content, form, discussion).
 S. Presentation of project of dissertation thesis. The subject is finished by the public presentation of the thesis project. The lectures of visiting foreigner experts focused on their own scientific work could be integrated into the course programme.

Recommended literature:

HENGL, T., GOULD, M.: The Unofficial Guide for Authors (Or How to Produce Research Articles Worth Citing). EUR 22191 EN. Luxemburg: Office for Official Publications of the European Communities, 2012. ISBN. 92-79-01703-9.

DAY, R. A.: How to Write and Publish Scientific Papers. – 5. vyd. [s. l.]: Oryx Press, 1998. 296 s.

HULÍN, I. et al.: Úvod do vedeckého bádania 1. Bratislava: ProLitera, 2009. 561 s.

KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130.

TOMANOVÁ, H.: Web of Science – Scopus. Bibliografické a citační databáze [online]. 2021. Available on: <http://www.lf1.cuni.cz/Data/files/UVI/prezentace/Tomanov%C3%A1/web-of-science-scopus.pdf>

Languages necessary to complete the course:

Slovak in combination with English (study literature in English)

Notes:

The subject is offered only in summer terms

Past grade distribution

Total number of evaluated students: 8

ABS	NEABS
100,0	0,0

Lecturers: prof. RNDr. Jozef Minár, CSc.

Last change: 17.09.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 332							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 367							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023	
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.	
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: 179							
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. Aneta Barnes, RNDr. Tatiana Slov�kov�, PhD.							
Last change: 03.10.2022							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KJ/N-DSSZ-027/22	Course title: Professional English 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: 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	
Learning outcomes: 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.	
Class syllabus: 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.	
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: 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.	
Past grade distribution	
Total number of evaluated students: 43	
ABS	NEABS
100,0	0,0
Lecturers: Mgr. Aneta Barnes	
Last change: 03.10.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-012/22	Course title: Scientific Work in Biogeography and Remote Sensing
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of a scientific paper from the field of biogeography and/or remote sensing (as the first and corresponding author). Performance of the tasks (continuous compounding) related to the improvement of the paper. Preparation of the final manuscript suitable for the submission to the scientific journal is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with theory and praxis of preparation of scientific study in the field of biogeography and remote sensing.	
Class syllabus: 1. L. A particularity of scientific work and preparation of publications in the biogeography and remote sensing, types of publications. 2. S. Content, requirements and time-table of seminars. 3. L. Analysis of selected biogeographical paper from point of view of its structure, preparation and background research. 4. S. Introductory concept of the paper (theme, goals, hypotheses). 5. L. Analysis of selected remote sensing paper from point of view of its structure, preparation and background research. 6. S. State of the art (for the prepared paper). 7. S. Theory and methods in the prepared paper. 8. S. Crucial results of the prepared paper. 9. S. Interpretation and discussion of results. 10. S. Conclusions and Abstract. 11. S. Internal review of the paper.	

12. S. Summary and evaluation of the subject. The lectures of visiting foreigner experts focused on their own scientific work could be integrated into the course programme.	
Recommended literature: HENGL, T., GOULD, M.: The Unofficial Guide for Authors (Or How to Produce Research Articles Worth Citing). EUR 22191 EN. Luxemburg: Office for Official Publications of the European Communities, 2012. ISBN. 92-79-01703-9. DAY, R. A.: How to Write and Publish Scientific Papers. – 5. vyd. [s. l.]: Oryx Press, 1998. 296 s. KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130. FERANEC, J., HAZEU, G., CHRISTENSEN, S., JAFFRAIN, G. Corine land cover change detection in Europe (case studies of the Netherlands and Slovakia). Land Use Policy, Vol., 24, 1, 2007, p. 234-247 The specific literature will be suggested for the individual projects of students.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes: The subject is offered only in summer terms	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: doc. RNDr. Vladimír Falt'an, PhD.	
Last change: 17.09.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-013/22	Course title: Scientific Work in Geoecology and Environmental Monitoring
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of a scientific paper from the field of geoecology and/or environmental monitoring (as the first and corresponding author). Performance of the tasks (continuous compounding) related to the improvement of the paper. Preparation of the final manuscript suitable for the submission to the scientific journal is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with theory and praxis of preparation of scientific study in the field of geoecology and environmental monitoring.	
Class syllabus: 1. L. A particularity of scientific work and preparation of publications in the geoecology nad environmental monitoring. 2. S. Content, requirements and time-table of seminars. 3. L. Analysis of selected geoecological papers from point of view of its structure, preparation and background research. 4. S. Introductory concept of the paper (theme, goals, hypotheses). 5. L. Analysis of selected environmental monitoring papers from point of view of its structure, preparation and background research. 6. S. State of the art (for the prepared paper). 7. S. Theory and methods in the prepared paper. 8. S. Crucial results of the prepared paper. 9. S. Interpretation and discussion of results. 10. S. Conclusions and Abstract. 11. S. Internal review of the paper.	

12. S. Summary and evaluation of the subject. Other topics can be operatively integrated into the content of the course, especially lectures by foreign experts focused on the presentation of the results of their scientific work and procedures for obtaining them.	
Recommended literature: HENGL, T., GOULD, M.: The unofficial guide for authors (Or how to produce research articles worth citing). EUR 22191 EN, 54 pp. Office for Official Publications of the European Communities, Luxemburg, 2012. ISBN: 92-79-01703-9 DAY, R. A.: How to Write and Publish Scientific Papers. 5th Edition. [s. l.]: Oryx Press, 1998. 296 s. KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130. ČEJKA, T., BERACKO, P., MATEČNÝ, I. (2020): „The impact of the Gabčíkovo hydroelectric power barrier on the Danube floodplain environment – The results of long-term monitoring of land snail fauna", Environmental Monitoring and Assessment, 192, Roč. 192, č. 1 (2020), s. [1-14], Art. No. 30 The specific literature will be suggested for the individual projects of students.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes: The subject is offered only in summer terms.	
Past grade distribution Total number of evaluated students: 0	
ABS	NEABS
0,0	0,0
Lecturers: doc. RNDr. Igor Matečný, PhD.	
Last change: 17.09.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-015/22	Course title: Scientific Work in Geomorphology and Geoinformatics
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of a scientific paper from the field of geomorphology and/or geoinformatics (as the first and corresponding author). Performance of the tasks (continuous compounding) related to the improvement of the paper. Preparation of the final manuscript suitable for the submission to the scientific journal is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with theory and praxis of preparation of scientific study in the field of geomorphology and geoinformatics.	
Class syllabus: 1. L. A particularity of scientific work and preparation of publications in the geomorphology and geoinformatics, types of publications. 2. S. Content, requirements and time-table of seminars. 3. L. Analysis of selected geomorphological paper from point of view of its structure, preparation and background research. 4. S. Introductory concept of the paper (theme, goals, hypotheses). 5. L. Analysis of selected geoinformatic paper from point of view of its structure, preparation and background research. 6. S. State of the art (for the prepared paper). 7. S. Theory and methods in the prepared paper. 8. S. Crucial results of the prepared paper. 9. S. Interpretation and discussion of results. 10. S. Conclusions and Abstract. 11. S. Internal review of the paper.	

12. S. Summary and evaluation of the subject. The lectures of visiting foreigner experts focused on their own scientific work could be integrated into the course programme.	
Recommended literature: HENGL, T., GOULD, M.: The Unofficial Guide for Authors (Or How to Produce Research Articles Worth Citing). EUR 22191 EN. Luxemburg: Office for Official Publications of the European Communities, 2012. ISBN. 92-79-01703-9. DAY, R. A.: How to Write and Publish Scientific Papers. – 5. vyd. [s. l.]: Oryx Press, 1998. 296 s. KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130. MINÁR, J., EVANS, I. S., & JENČO, M. (2020). A comprehensive system of definitions of land surface (topographic) curvatures, with implications for their application in geoscience modelling and prediction. Earth-Science Reviews, 211, 103414. PÁNEK, T., MINÁR, J., VITOVIC, L., BŘEŽNÝ, M., 2020. Post-LGM faulting in Central Europe: LiDAR detection of the >50 km-long Sub-Tatra fault, Western Carpathians. Geomorphology 364, 107248. The specific literature will be suggested for the individual projects of students.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes: The subject is offered only in summer terms	
Past grade distribution Total number of evaluated students: 5	
ABS	NEABS
100,0	0,0
Lecturers: prof. RNDr. Jozef Minár, CSc.	
Last change: 17.09.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-014/22	Course title: Scientific Work in Hydrology and Climatology
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of a scientific paper from the field of hydrology and/or climatology (as the first and corresponding author). Performance of the tasks (continuous compounding) related to the improvement of the paper. Preparation of the final manuscript suitable for the submission to the scientific journal is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with theory and praxis of preparation of scientific study in the field of Hydrology and Climatology.	
Class syllabus: 1. L. A particularity of scientific work and preparation of publications in the hydrology and climatology, types of publications. 2. S. Content, requirements and time-table of seminars. 3. L. Analysis of selected hydrological paper from point of view of its structure, preparation and background research. 4. S. Introductory concept of the paper (theme, goals, hypotheses). 5. L. Analysis of selected climatological paper from point of view of its structure, preparation and background research. 6. S. State of the art (for the prepared paper). 7. S. Theory and methods in the prepared paper. 8. S. Crucial results of the prepared paper. 9. S. Interpretation and discussion of results. 10. S. Conclusions and Abstract. 11. S. Internal review of the paper.	

12. S. Summary and evaluation of the subject. The lectures of visiting foreigner experts focused on their own scientific work could be integrated into the course programme.	
Recommended literature: HENGL, T., GOULD, M.: The Unofficial Guide for Authors (Or How to Produce Research Articles Worth Citing). EUR 22191 EN. Luxemburg: Office for Official Publications of the European Communities, 2012. ISBN. 92-79-01703-9. DAY, R. A.: How to Write and Publish Scientific Papers. – 5. vyd. [s. l.]: Oryx Press, 1998. 296 s. KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130. RUMAN, S., KRPEC, P., RUSNOK, P. et al. Impact of missing precipitation values on hydrological model output: a case study from the Eddleston Water catchment, Scotland. Acta Geophys. 68, 565–576 (2020). The specific literature will be suggested for the individual projects of students.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes: The subject is offered only in summer terms	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: doc. RNDr. Milan Trizna, PhD.	
Last change: 17.09.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KFGGI/N-DZFG-011/22	Course title: Scientific Work in Pedogeography, Palaeopedology and Palaeoecology
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 Form of Study: Lectures (L) and Seminars (S) Number of contact hours: 4 per week: 1L, 3S per level/semester: 48	
Number of credits: 5	
Recommended semester: 2.	
Educational level: III.	
Prerequisites:	
Course requirements: Active participation on seminars and gradual preparation of a scientific paper from the field of pedogeography and/or palaeopedology and palaeoecology (as the first and corresponding author). Performance of the tasks (continuous compounding) related to the improvement of the paper. Preparation of the final manuscript suitable for the submission to the scientific journal is necessary condition for the credits delivery.	
Learning outcomes: Students will get acquainted with theory and praxis of preparation of scientific study in the field of pedogeography, palaeopedology and palaeoecology.	
Class syllabus: 1. L. A particularity of scientific work and preparation of publications in the pedogeography, palaeopedology and palaeoecology. 2. S. Content, requirements and time-table of seminars. 3. L. Analysis of selected pedogeographical paper from point of view of its structure, preparation and background research. 4. S. Introductory concept of the paper (theme, goals, hypotheses). 5. L. Analysis of selected palaeopedological and palaeoecological paper from point of view of its structure, preparation and background research. 6. S. State of the art (for the prepared paper). 7. S. Theory and methods in the prepared paper. 8. S. Crucial results of the prepared paper. 9. S. Interpretation and discussion of results. 10. S. Conclusions and Abstract. 11. S. Internal review of the paper.	

12. S. Summary and evaluation of the subject. The lectures of visiting foreigner experts focused on their own scientific work could be integrated into the course programme.	
Recommended literature: HENGL, T., GOULD, M.: The Unofficial Guide for Authors (Or How to Produce Research Articles Worth Citing). EUR 22191 EN. Luxemburg: Office for Official Publications of the European Communities, 2012. ISBN. 92-79-01703-9. DAY, R. A.: How to Write and Publish Scientific Papers. – 5. vyd. [s. l.]: Oryx Press, 1998. 296 s. KEYS, C. W.: Revitalizing Instruction in Scientific Genres: Connecting Knowledge Production with Writing to Learn in Science. In: Science Education. 1999, 83, 2, 115-130. HOŠEK, J., LISÁ, L., HAMBACH, U. F., PETR, L., VEJROSTOVÁ, L., BAJER, A., GRYGAR, T. M., MOSKA, P., GOTTWALD, Z., HORSÁK, M. 2017. Middle Pleniglacial pedogenesis on the northwestern edge of the carpathian basin: A multidisciplinary investigation of the Bíňa pedo-sedimentary section, SW Slovakia. Palaeogeography, Palaeoclimatology, Palaeoecology 487: 321-339. The specific literature will be suggested for the individual projects of students.	
Languages necessary to complete the course: Slovak in combination with English (study literature in English)	
Notes: The subject is offered only in summer terms	
Past grade distribution Total number of evaluated students: 1	
ABS	NEABS
100,0	0,0
Lecturers: doc. Ing. Peter Pišút, PhD.	
Last change: 17.09.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 12							
A	ABS	B	C	D	E	FX	NEABS
0,0	91,67	0,0	0,0	0,0	0,0	0,0	8,33
Lecturers: RNDr. Jana Ciceková, PhD., doc. RNDr. PaedDr. Zuzana Haláková, PhD., PhDr. ThLic. Peter Ikhardt, PhD.							
Last change: 30.09.2022							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: 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: 40							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023	
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://slovakie.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: 27

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:

COURSE DESCRIPTION

Academic year: 2022/2023	
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://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: 27

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:

COURSE DESCRIPTION

Academic year: 2022/2023	
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: 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: Mgr. Karin Rózsová Wolfová							
Last change: 18.10.2022							
Approved by:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 202							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 39							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 86							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 38							
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:							

COURSE DESCRIPTION

Academic year: 2022/2023							
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: 153							
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:							