

Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-016/22			Course title: Agriculture and Forestry in a Geographical Perspective			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 6						
A	ABS	B	C	D	E	FX
66,67	0,0	16,67	16,67	0,0	0,0	0,0
Lecturers: doc. Mgr. Vladimír Bačík, PhD., prof. RNDr. Ján Buček, CSc., RNDr. Michal Klobučník, PhD., RNDr. Martin Plešivčák, PhD., Mgr. Alena Rochovská, PhD., Mgr. Lucia Vršanská, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-236/22	Course title: Algorithms and Data Structures
Educational activities: Type of activities: course Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 4.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-241/15 - Programming (3)	
Course requirements: Interim assessment: assessment of short tests (30%) and several smaller projects (20%) Examination: test and practical exam at the computer Indicative grading scale: A 88%, B 81%, C 74%, D 67%, E 60% Scale of assessment (preliminary/final): 50/50	
Learning outcomes: After completing the course, students will understand different abstract data types, understand the differences between their different implementations, will be able to estimate the complexity of operations on individual structures, will be able to use more complex data structures and advanced algorithms in programming more complex problems, analyze and compare programs solving the same problem in terms of efficiency.	
Class syllabus: • complexity criteria, program run time calculation, asymptotic notation • basic abstract data types - list, stack, row • tree, binary tree, binary search tree • balanced tree • priority queue • chart, searching, backtracking • dictionary, hashing • sorting	
Recommended literature: the teacher's own electronic study materials published on the subject's website, resp. in Moodle Ryant, I .: Object-Oriented Algorithms and Data Structures, 2017, P. 288 Wróblewski, P .: Algorithms: Data Structures and Programming Techniques, Computer Press, 2004, p. 350 Mehlhorn, K., Sanders, P .: Algorithms and data structures: The basic toolbox. Berlin: Springer, 2008	

Cormen, T.H., Leiserson, C.E., Rivest, R.L., Syein, C.: Introduction to Algorithms, MIT Press; 3rd edition, 2009

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 47

A	B	C	D	E	FX
21,28	14,89	14,89	23,4	17,02	8,51

Lecturers: doc. RNDr. Zuzana Kubincová, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-084/22			Course title: ArcGIS Online Course			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 27						
A	ABS	B	C	D	E	FX
77,78	0,0	14,81	7,41	0,0	0,0	0,0
Lecturers: Mgr. Michal Druga, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFLKDMFI+KAG/1- UXX-931/22	Course title: BSc Thesis Seminar (1)
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.	
Prerequisites:	
Course requirements: Submission of partial output in the form of a proposal for the main objectives and structure of the bachelor's thesis, a search with an overview of available information sources on a selected topic of the bachelor's thesis. Rating by scale: A: 92-100%, excellent - excellent results, B: 84-91%, very good - above average standard, C: 76-83%, good - normal reliable work, D: 68-75%, satisfactory - acceptable results, E: 60-67%, sufficient - the results meet the minimum criteria, Fx: 0-59%, insufficient - additional work required	
Learning outcomes: The student is able to define the topic of their bachelor's thesis, can correctly determine the procedures and methods of its processing, divide the process of creation into time stages, gain the ability to work selectively and correctly with the literature on the selected topic.	
Class syllabus: Definition of the topic and goal of the final work. Study of professional literature. Excerpt of the material. Theoretical and methodological conception of the work. Problem processing methodology. Methodology of elaboration of the final work. Formal-compositional requirements of final theses.	
Recommended literature: Selection of professional literature according to the chosen topic of the thesis; Current directive of the Rector of Charles University on the basic requirements for final theses; KATUŠČÁK, D.: Ako písať záverečné a kvalifikačné práce. Nitra: Enigma 2007	

Languages necessary to complete the course: slovak						
Notes:						
Past grade distribution Total number of evaluated students: 40						
A	ABS	B	C	D	E	FX
65,0	0,0	12,5	10,0	7,5	2,5	2,5
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD., RNDr. Monika Dillingerová, PhD., RNDr. Martina Bátorová, PhD., doc. PaedDr. Klára Velmovská, PhD.						
Last change: 01.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI+KAG/1- UXX-932/22	Course title: BSc Thesis Seminar (2)
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Submission of partial output in the form of a comprehensive chapter of the bachelor's thesis. Rating by scale: A: 92-100%, excellent - excellent results, B: 84-91%, very good - above average standard, C: 76-83%, good - normal reliable work, D: 68-75%, satisfactory - acceptable results, E: 60-67%, sufficient - the results meet the minimum criteria, Fx: 0-59%, insufficient - additional work required	
Learning outcomes: The student is able to define the topic of their bachelor's thesis, can correctly determine the procedures and methods of its processing, gain the ability to work selectively and correctly with the literature on the selected topic and appropriately present the results and important conclusions.	
Class syllabus: Definition of the topic and goal of the final work. Study of professional literature. Excerpt of the material. Theoretical and methodological conception of the work. Problem processing methodology. Methodology of elaboration of the final work. Formal-compositional requirements of final theses.	
Recommended literature: Selection of professional literature according to the chosen topic of the thesis; Current directive of the Rector of Charles University on the basic requirements for final theses; KATUŠČÁK, D.: Ako písať záverečné a kvalifikačné práce. Nitra: Enigma 2007	
Languages necessary to complete the course: slovak	

Notes:						
Past grade distribution						
Total number of evaluated students: 27						
A	ABS	B	C	D	E	FX
59,26	0,0	22,22	11,11	3,7	3,7	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD., RNDr. Monika Dillingerová, PhD., RNDr. Martina Bátorová, PhD., PaedDr. Tünde Kozánek Kiss, PhD.						
Last change: 01.08.2022						
Approved by:						

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: PriF.KDPP/N-bOBH-100/22	Course title: Bachelor's Thesis Defence
Number of credits: 8	
Educational level: I.	
State exam syllabus:	
Last change: 01.08.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-069/22			Course title: Biogeography			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 49						
A	ABS	B	C	D	E	FX
10,2	0,0	28,57	20,41	12,24	22,45	6,12
Lecturers: RNDr. Ivan Ružek, PhD.						
Last change: 26.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-070/22			Course title: Biogeography – Practical Course			
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 22						
A	ABS	B	C	D	E	FX
9,09	0,0	27,27	22,73	13,64	13,64	13,64
Lecturers: RNDr. Ivan Ružek, PhD.						
Last change: 26.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAI/1-AIN-407/22	Course title: Brain and Mind
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 1., 3., 5.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: presence (30%), presentation (40%), bonus assignments (30%) Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The course objectives are to make the students familiar with major theories and methods of mind/brain research.	
Class syllabus: The subject of the course is the human mind and brain from the perspective of neuroscience, computer science, psychology, and philosophy. It is mainly focused on the interdisciplinary study of consciousness: its neural correlates, neuroscience and behavioral research methods, and major theories.	
Recommended literature: S. Blackmore, E.T. Troscianko: Consciousness. An Introduction. Routledge, third edition 2018. M.S. Gazzaniga, R.B. Ivry, G.R. Mangun: Cognitive Neuroscience. The Biology of the Mind. W.W. Norton & company, fifth edition 2019. J. Friedenberg, G. Silverman: Cognitive Science. An Introduction to the Study of Mind. Sage 2012. T. Metzinger: The Ego Tunnel. The Science of the Mind and the Myth of the self. Basic Books 2009.	
Languages necessary to complete the course: Slovak, English	
Notes:	

Past grade distribution					
Total number of evaluated students: 210					
A	B	C	D	E	FX
49,05	15,71	14,29	10,48	2,38	8,1
Lecturers: RNDr. Barbora Cimrová, PhD., doc. PhDr. Ján Rybár, PhD.					
Last change: 04.07.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-057/22			Course title: Climate Changes, Hazards and Risks			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 94						
A	ABS	B	C	D	E	FX
4,26	0,0	18,09	20,21	25,53	29,79	2,13
Lecturers: RNDr. Ivan Ružek, PhD., doc. Ing. Peter Pišút, PhD., RNDr. Marián Jenčo, PhD., RNDr. Norbert Polčák, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KAI/1-AIN-408/22		Course title: Cognitive Laboratory			
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1., 3., 5.					
Educational level: I.					
Prerequisites:					
Course requirements: Interim evaluation: presentations Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Acquisition of methods for studying various cognitive phenomena (data collection and analysis) using an online cognitive laboratory.					
Class syllabus: Demonstration of 40 standard experiments in the fields of neurocognition, mechanisms of perception, attention systems, memory processes, speech production and perception, knowledge representation (concepts and mental ideas), judgment and decision-making processes.					
Recommended literature: CogLab / Greg Francis, Ian Neath, Daniel R. VanHorn. Thomson/Wadsworth, 2014					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 78					
A	B	C	D	E	FX
65,38	14,1	7,69	1,28	0,0	11,54
Lecturers: doc. PhDr. Ján Rybár, PhD.					
Last change: 17.05.2024					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-683/22	Course title: Creating of Educational Software
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: The student earns points for meeting the criteria for five control stages (20% points for each stage) in the design, development and testing of their own emerging educational software. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: According to the requirements of the teacher from practice, the student will design and develop educational software. The program designs and tests in control stages. The result of the last stage is a functional program. The software is developed using Design-based Research methods. The student will write a user manual for the teacher and methodological material for using their software in teaching.	
Class syllabus: Future teacher as a creator of educational software. Selection of a suitable topic for educational software for teaching informatics at primary and secondary schools. Specification of educational software in terms of design and functionality. Interactivity, multimedia, openness of the software (settings, tasks, pictures, editor for the teacher, student registration, tables and diagrams of student evaluation ...). Desktop programs vs. web applications. Software development. Multiple deployment of software in teaching. Evaluation of software by users - teachers and students. Software development using Design-based Research methods.	
Recommended literature:	

Transformations of the school in the digital age / Ivan Kalaš and team. Bratislava: Slovenské pedagogické nakladateľstvo - Mladé letá, 2013 T. Plomp, N. Nieveen et al. Educational Design Research. Slo 2013 own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-344/22	Course title: Creation of Educational Materials for Students with Special Educational Needs
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Interim evaluation: Active participation, problem solving, participation in discussions (90%), project elaboration (10%) An exam: - Indicative evaluation scale: e.g. A 90%, B 80%, C 70%, D 65%, E 60%	
Learning outcomes: The student: - gain first-hand experience of how people with SEN perceive the world and how they work with a computer and a web browser - get acquainted with the problems of users of alternative software and hardware - learns about problem elements and aspects of the site - get acquainted with examples of good and bad practice - gain experience in testing the accessibility of electronic documents	
Class syllabus: - Accessibility of electronic document. - Visually impaired users. - Hearing impaired users. - Users with physical disabilities. - Users with cognitive impairments. - Users of alternative devices. - Accessibility of textual content - Accessibility of multimedia content - Accessibility of dynamic content - Accessibility testing methods	
Recommended literature: - own electronic texts published on the website, resp. in the Moodle environment - Špinar, D.: We create accessible websites; Zoner Press, 2004, 360 p.	

- Bezáčková, D. et al .: Data Creation and Presentation, Bratislava: Center for Scientific and Technical Information of the Slovak Republic, 2020, ISBN 978-80-89965-67-0.

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 0

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

Lecturers: doc. RNDr. Ľudmila Jašková, PhD.

Last change: 20.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-034/22		Course title: Current Problems of Applied Demography and Human Resources Planning				
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 6.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Branislav Bleha, PhD.						
Last change: 09.08.2022						
Approved by:						

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-991/22	Course title: Defence of BSc Thesis
Number of credits: 8	
Educational level: I.	
Course requirements: Examination: state examination Scale of assessment (preliminary/final): 0/100	
Learning outcomes: When designing the bachelor's thesis, the student is able to demonstrate the ability to work creatively in the field of study in which he completed the study program. The student is able to demonstrate adequate knowledge of the issue and apply their skills in the collection, interpretation and processing of basic literature, or its application in practice or is able to solve a partial task related to the student's focus.	
Class syllabus: Course contents: 1. Contribution of the final thesis for the given field of study applied in the collection, interpretation and processing of basic professional literature, or the extent to which the student has mastered the application of theoretical principles in practice and whether the hypotheses presented in the work are verifiable; 2. Originality of the thesis (the final thesis must not have the character of a plagiarism, must not infringe the copyrights of other authors), part of the documentation for the defense of the final thesis as a subject of state examination is the protocol of originality from the central register. 3. Correctness and correctness of citation of used information sources, research results of other authors and author groups, correctness of description of methods and working procedures of other authors or author groups; 4. Compliance of the structure of the final work with the prescribed composition defined by Internal Regulation no. 12/2013; 5. Respecting the recommended scope of the final thesis (the recommended scope of the bachelor's thesis is usually 30 - 40 standard pages - 54,000 to 72,000 characters, including spaces), the adequacy of the scope of the thesis is assessed by its supervisor; 6. Linguistic and stylistic level of work and formal arrangement; 7. The method and form of the defense of the final thesis and the student's ability to adequately respond to comments and questions in the opinions of the supervisor and the opponent. 8. In the teaching of art-educational subjects, the final work and its defense may also include the presentation of artistic outputs and performances.	
State exam syllabus:	
Recommended literature: according to the topic of the bachelor thesis	
Languages necessary to complete the course: Slovak, English	

Last change: 22.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-057/22			Course title: Demographic Development: Selected Causes and Consequences			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 3.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 71						
A	ABS	B	C	D	E	FX
0,0	0,0	9,86	26,76	32,39	9,86	21,13
Lecturers: prof. RNDr. Branislav Bleha, PhD., Mgr. Marcela Káčerová, PhD., Mgr. Juraj Majo, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-033/22		Course title: Development Trends in Geography of International Trade and Retailing				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 2						
A	ABS	B	C	D	E	FX
50,0	0,0	0,0	0,0	50,0	0,0	0,0
Lecturers: Mgr. Ingrid Bučková, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-574/22	Course title: Didactic Proseminar in Computer Science
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: seminar work, paper Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - can assess and evaluate different educational programs according to whether they are suitable for a given level of education - understands and is able to design activities for different types of computer science lessons - knows and is able to design instructional and constructivist lessons in practice - knows, can compare and evaluate computer science curricula in different countries - prepares and implements computer science lessons in seminars with colleagues, in which he applies non-traditional ways of teaching computer science topics	
Class syllabus: At each of the seminars we will address some problem of didactics of informatics from practice, such as: - IT topics in the State Education Program, - different approaches to teaching computer science, - constructivism and constructionism, - IT instructivism, - informatics vs. digital literacy, - informatics in primary and pre-primary education, - informatics in other countries, - non-traditional ways of teaching computer science, - evaluation and feedback, - methods of working in computer science lessons	
Recommended literature: methodical materials of teachers from practice	

own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KDPP/N-bUGE-015/22		Course title: Didactics of Geography				
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 6.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 75						
A	ABS	B	C	D	E	FX
21,33	0,0	33,33	18,67	9,33	9,33	8,0
Lecturers: doc. RNDr. Štefan Karolčík, PhD., RNDr. Peter Likavský, CSc.						
Last change: 01.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI+KAG/1- UXX-237/22	Course title: Digital Educational Technologies for Descriptive Geometry
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UXX-137/22 - Digital Literacy	
Course requirements: The student can obtain 100% of the grade during the semester. The student prepares assignments of various types in various digital tools, he / she needs at least half of the available points to successfully obtain the final grading. Grading: A (100-91), B (90-81), C (80-71), D (70-61), E (60-51), Fx (50-0). Scale of assessment (preliminary/final): Preliminary assessment 100% (homework assignments) / 0% final exam	
Learning outcomes: The course graduate: 1. will learn to practically demonstrate work with projection methods of both the parallel and central projection via selected graphic digital tools 2. will be able to practically create a digital presentation of static and dynamic sketches of projections of three-dimensional objects into a suitably chosen projection plane (projections, anaglyphs, animations) 3. will work practically to incorporate basic norms and standards of technical drawing in suitable software tools while creating projections of three-dimensional objects into the chosen projection plane by the given imaging method 4. using specific software tools, they will practically learn the difference between theoretical and numerical model of foundational concepts and objects in the field of geometry using specific software tools, consisting of conceptually more complex geometric models and their visualizations	
Class syllabus: 1. useful digital tools for projections imaging (CAD systems, GeoGebra, Maxima, other online tools) 2. static and dynamic digital presentation of concepts from imaging methods of parallel and central projection (digital construction of linear perspective, Monge's projection, military and cavalry axonometry) 3. technical drawing, its norms and standards and their use in professional teaching practice	

Recommended literature: 1. electronic texts published on the subject's website					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 87					
A	B	C	D	E	FX
77,01	13,79	5,75	2,3	1,15	0,0
Lecturers: RNDr. Martina Bátorová, PhD., Ing. Martin Čavarga					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-240/22	Course title: Digital Educational Technologies for Informatics
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous assessment: The student can get 50% points for active participation in seminars and another 50% points for completing tasks. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: The student: - uses modern DT to plan, prepare and implement its future teaching - knows suitable digital tools for teaching informatics, can search for them and critically evaluate them - analyzes educational software for teaching informatics, critically evaluates it and decides on its inclusion in the teaching process - assesses and decides why, when, where and how DT will contribute to the achievement of educational goals - is able to manage classroom teaching so that teamwork with the support of DT is used for the benefit of the cognitive process of students, - is able to communicate with colleagues and students with the help of DT - uses DT in pupil assessment - DT also uses to collect and analyze data on students' educational progress, to interpret their results, etc.	
Class syllabus: - The future teacher of informatics and his further education in various areas of informatics. - Search, use and evaluation of currently available digital tools to support computer science teaching. - Future computer science teacher as an author of sample solutions to programming problems. - Preparing the future teacher for the need and updating the DT he uses for teaching. - Adaptation of the future teacher to new versions of programs for various areas of informatics. - Future computer science teacher as the author of new tasks for primary and secondary school students.	

- Own creative work of a computer science teacher as an author of digital teaching materials for teaching computer science. - Computer science teacher as a user and didactics of various programming microworlds. - Advanced techniques for programming environments to teach the areas of Procedures, Problem Solving, Algorithmic Thinking. - Digital systems suitable for teaching management, communication with students and parents.					
Recommended literature: Own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 95					
A	B	C	D	E	FX
75,79	13,68	5,26	4,21	1,05	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-341/22	Course title: Digital Educational Technologies for Mathematics
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UXX-137/22 - Digital Literacy	
Course requirements: Continuous assessment: tasks Indicative rating scale: A 92%, B 84%, C 76%, D 68%, E 60% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student uses modern digital technologies (DT) to plan, prepare and implement their future teaching (in the relevant subject) and to support the achievement of their educational goals. They has an overview of suitable educational resources for the subject, can search, select and critically evaluate them. They also has an overview of DTs that facilitate the assessment and recording of the cognitive process and educational progress of their students. The student: - analyzes multimedia educational software from the point of view of the given approbation subject, critically decides on its inclusion in the teaching process, - critically evaluates educational and support software and other digital content, is able to formulate requirements for educational software and digital content, - assesses and decides why, when, where and how DT will contribute to the achievement of its educational goals, - has an overview of how: - use DT in an appropriate and productive way to help achieve the educational objectives of its subject, - manage classroom teaching so that teamwork with DT support is used to benefit students' cognitive process, - communicate with colleagues or pupils through appropriate and effective tools to achieve their teaching objectives, - use modern DT in evaluating student education, - use DT to collect and analyze data on students' educational progress, to interpret their results, etc.	
Class syllabus: ● Analysis, evaluation and assessment of educational software and digital educational content for the relevant subject.	

• Digital technologies usable in the design, preparation, implementation and analysis of the teaching process of the relevant subject. • Different forms, means and tools of communication in the educational process and in the school environment (eg between school and parents).					
Recommended literature: Relevant literature for the approbation subject.					
Languages necessary to complete the course: slovak, english					
Notes:					
Past grade distribution Total number of evaluated students: 54					
A	B	C	D	E	FX
64,81	11,11	11,11	7,41	1,85	3,7
Lecturers: RNDr. Monika Dillingerová, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-239/22	Course title: Digital Educational Technologies for Physics
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Interim evaluation: Active participation; during the semester students develop a project (digital model). Final evaluation: Presentation of the created digital model and a demonstration of its practical application in teaching. Indicative rating scale: A = (90, 100]%, B = (80, 90]%, C = (70, 80]%, D: (60, 70]%, E: (50, 60]%. Scale of assessment (preliminary/final): 20 / 80	
Learning outcomes: Student by completing the course: - acquire basic knowledge and skills for creating activities with a focus on the digital model, - be able to make meaningful use of digital technologies in modeling different task situations, - will be able to plan student activities leading to the creation of digital models, - will be able to develop interdisciplinary relationships between mathematics, physics and computer science.	
Class syllabus: - basic orientation in the PPPL software environment (computer aided science laboratory) - dynamic modeling of physical phenomena - creation of a simple model - body fall - extension of a simple model with environmental resistance, controls, graphic output - modeling of oblique litter with environmental resistance - application of the created model in solving physical problems and situations from everyday life - case studies in school physics (in terms of models and modeling) - creation of own model according to the student's choice	
Recommended literature: The teacher's own electronic texts published on the website, resp. in the Moodle environment.	
Languages necessary to complete the course: Slovak	

Notes:					
Past grade distribution					
Total number of evaluated students: 95					
A	B	C	D	E	FX
74,74	15,79	6,32	2,11	1,05	0,0
Lecturers: PaedDr. Lukáš Bartošovič, PhD., doc. RNDr. Peter Demkanin, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-137/22	Course title: Digital Literacy
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous assessment: students will work on one major project throughout the semester and will be assessed continuously on the completion of the associated subtasks Indicative grading scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Students are able to take a research-oriented approach to topics related to the digital age. They can effectively search for information on a given topic, assess its relevance, reflect and discuss it. They are able to specify an unexplored area within a chosen topic and find a way to find out something new about it. They use appropriate digital tools in their research that enable them to collect, process and present the necessary data. They are able to create online documents and work collaboratively within them.	
Class syllabus: - exploring current topics related to digital technologies and discussing them - working collaboratively to design, conduct and present your own research or investigation on a chosen topic - using online forms to collect different types of data - processing and interpreting data using digital tools - writing an article that incorporates theoretical background and your own findings - creating a presentation using online tools - presenting the results of your own research	
Recommended literature: Transformations of the school in the digital age / Ivan Kalaš and team. Bratislava: Slovenské pedagogické nakladateľstvo - Mladé letá, 2013 Pedagogicko-psychologické otázky online vzdelávania / Michal Černý. Brno: Masaryk University, 2018 Own electronic texts published on the website, resp. in the Moodle environment	
Languages necessary to complete the course:	

Slovak, English					
Notes:					
Past grade distribution					
Total number of evaluated students: 211					
A	B	C	D	E	FX
75,83	10,9	5,69	1,9	1,42	4,27
Lecturers: Mgr. Mária Čujdíková, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-342/22	Course title: Digital Technologies for Students with SEN
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: active participation in lessons (elaboration of assigned tasks, participation in discussions) Exam: no Indicative assessment scale: A 90%, B 80%, C 70%, D 65%, E 60%	
Learning outcomes: Gain an overview of the possibilities of using digital technologies (DT) in the education of students with special educational needs (SEN). To get acquainted with the methods of teaching students with SEN and the creation of accessible study materials.	
Class syllabus: - specification of student with SEN, - categorization of pupils with SEN, - assistive technologies for pupils with SEN and their way of working with DT, - accessibility of information on the web, - principles of universal design, - use of DT for the preparation of study materials for pupils with SEN, - recommended didactic methods in teaching pupils with SEN, - the use of DT to increase the inclusiveness of schools.	
Recommended literature: Use of ICT in children with special needs / Pavel Zikl ... [et al.]. Prague: Grada, 2011 Basics of inclusive pedagogy: child with disability, disruption and threat at school / Viktor Lechta (ed.); translated by Magda Wdowczyn. Prague: Portal, 2010	
Languages necessary to complete the course: Slovak, English	
Notes:	

Past grade distribution					
Total number of evaluated students: 88					
A	B	C	D	E	FX
76,14	9,09	6,82	2,27	0,0	5,68
Lecturers: doc. RNDr. Ľudmila Jašková, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-238/22	Course title: Digital Technologies in Education
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 3.	
Educational level: I., II.	
Prerequisites:	
Course requirements: The final grade includes an evaluation for the developed designs of teaching models with the support of technology, a total of a maximum of 60 points and an oral exam, a total of a maximum of 40 points. To advance to the oral exam, the student must obtain at least 30 points for teaching models. To pass the oral exam, the student must obtain at least 20 points. The final grade includes an evaluation for the developed teaching models and an oral exam. In order to obtain an A rating, it is necessary to obtain at least 91 points, to obtain an B rating at least 81 points, to obtain a C rating at least 71 points, to obtain a D rating at least 61 points and to obtain an E rating at least 50 points. Scale of assessment (preliminary/final): 60/40	
Learning outcomes: By completing the course, the student will be able to critically assess the safety, suitability and meaningfulness of the application of digital technologies in the teaching process. Understand the risks, opportunities and limits of integrating digital technologies into teaching and their importance in supporting the learning process. He will be able to assess the quality of digital resources with educational content in the context of teaching needs. Can distinguish between false, misleading or truth-altering information and use procedures to verify the veracity, timeliness and scientific accuracy of published facts and facts. Can design an appropriate and effective application of selected digital technologies in the teaching program.	
Class syllabus: Digital resources and digital technologies vs. educational digital resources and educational technologies; Security in the digital world; BYOD in the teaching process - benefits, challenges, limits and limitations; Digital literacy and its importance in the digital world; Possibilities and limits of the use of digital technologies in support of personalized learning, research and research-oriented teaching; Evaluation of the quality of educational technologies and the possibility of their integration into teaching; Selected digital technologies supporting the teaching process. 1. Digital technologies - historical development, use, present, perspectives. 2. Digital literacy - what we mean by digital literacy, methods and means of development DG, education and DG.	

3. Digital technologies in education - technologies vs. educational technologies, groups of technologies usable in education (Comprehensive educational environment, educational programs, mobile applications, virtual laboratories, applets, modules, accessories ...).
4. Digital technologies in education - educational content, assessment of suitability and adequacy of technology to support teaching, information retrieval, support of special educational needs.
5. Digital technologies in education - tools for communication, cooperation, creation and sharing of results.
6. Digital technologies in education - systems to support education and organization of the educational process.
7. Digital technologies in education - teaching methods and strategies supporting meaningful and appropriate applications of DT in education.
8. Digital technologies in education - social and ethical aspects of the use of DT in education.
9. Digital content creation - available software tools for creating educational content, teaching materials, quizzes, interactive exercises.
10. Security in the digital age - fake news, hoaxes, detectors and algorithms for their detection.
11. Digital content - procedures for verifying the truthfulness, accuracy and timeliness of information available on the Internet.
12. Research in the use of digital technologies in education.

Recommended literature:

1. Brestenská, B. et al. (2020). Innovative learning with the support of digital technologies. Bratislava: Comenius University in Bratislava, 2020. ISBN: 978-80-223-4927-7
2. Karolčík, Š., Čipková, E., Digital educational resources in the context of evaluating their quality. 1st ed. Bratislava: Comenius University in Bratislava, 155 p
3. ISTE standards for students - <https://www.iste.org/standards/iste-standards-for-students>
4. ISTE standards for teachers - <https://www.iste.org/standards/iste-standards-for-teachers>
5. Gormally, Carickman, Peggy; Hallar, Brittan; and Armstrong, Norris (2009) "Effects of Inquiry-based Learning on Students' Science Literacy Skills and Confidence," International Journal for the Scholarship of Teaching and Learning: 3 (2), Article 16. Available at: <http://digitalcommons.georgiasouthern.edu/ij-sotl/vol3/iss2/16>
6. Tsung-Hau Jen, Yi-Fen Yeh, Ying-Shao Hsu, Hsin-Kai Wu, Kuan-Ming Chen. (2016). Science teachers' TPACK-Practical: Standard-setting using an evidence-based approach. Computers & Education, Volume 95, Pp. 45-62, DOI: <https://doi.org/10.1016/j.compedu.2015.12.009>
7. REDECKER, Christine and Yves PUNIE. European Framework for the Digital Competence of Educators: DigCompEdu [online]. © European Union 2017 [cit. 2021-12-09]. Available at: <https://op.europa.eu/en/publication-detail/-/publication/fcc33b68-d581-11e7-a5b9-01aa75ed71a1/language-en>
8. Digital technologies are changing the cognitive process [online]. State Pedagogical Institute [cit. 2021-12-09]. Available at: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/digitalne_technologie_menia_poznavaci_proces.pdf

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 162

A	B	C	D	E	FX
70,99	12,35	7,41	3,09	1,85	4,32

Lecturers: PaedDr. Andrea Hrušecká, PhD., PaedDr. Roman Hrušecký, PhD.
Last change: 22.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-013/22			Course title: Economic Geography			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 5						
A	ABS	B	C	D	E	FX
80,0	0,0	0,0	0,0	0,0	0,0	20,0
Lecturers: doc. Mgr. Marcel Horňák, PhD., Mgr. Jaroslav Rusnák, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-019/22			Course title: Economics and Public Finance			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 6						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	50,0	50,0
Lecturers: prof. RNDr. Ján Buček, CSc., RNDr. Martin Plešivčák, PhD.						
Last change: 14.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAG/2-MPG-247/22	Course title: Effective Writing of Professional Texts
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: The student can obtain 100% of the grade during the semester. The student prepares assignments of various types in various digital tools, he / she needs at least half of the available points to successfully obtain the final grading. Grading: A (100-91), B (90-81), C (80-71), D (70-61), E (60-51), Fx (50-0). Scale of assessment (preliminary/final): Preliminary assessment 100% (homework assignments) / 0% final exam	
Learning outcomes: 1. The graduate will acquire advanced skills needed to work in the LaTeX typographic system. 2. The graduate will acquire basic skills in the computer algebra system wxMaxima. Learns the basic structures and procedures of the environment's language, learns to write simple scripts and generate visualizations of basic mathematical and geometric concepts. 3. The graduate will get acquainted with the methodological procedures of writing longer professional texts, from the stage of preparation to the finalization of the text.	
Class syllabus: 1. LaTeX: Typing mathematical formulae in LaTeX. Drafting texts in LaTeX. Additional document settings in LaTeX, more advanced typesetting concepts (document settings, templates, custom environment definitions, etc.). LaTeX presentations. 2. wxMaxima: Introduction to the environment. Setup and control. Basic programming concepts (variable, cycle, condition, data structures). Basic mathematical concepts and structures (matrices, equations, maps). Rendering and visualization in plane and space (polygons, curves, surfaces). Animation and visualization of processes. 3. Methodology of writing professional texts: basic thought procedures for creating longer professional texts.	
Recommended literature: Electronic texts, scripts and other materials published on the teacher's website. https://www.latex-project.org/help/documentation/ https://maxima.sourceforge.io/documentation.html	

https://home.csulb.edu/~woollett/mbe.html					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 15					
A	B	C	D	E	FX
33,33	33,33	13,33	6,67	13,33	0,0
Lecturers: RNDr. Martina Bátorová, PhD., doc. RNDr. Andrej Ferko, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-233/13		Course title: English Conversation Course (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3., 5.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests, presentations, essays Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Continual improvement of all language skills focused on communication/speaking, listening comprehension and writing. The emphasis is on discourse, lexicology and morphology, word-bank broadening of communicational English as well as English for specific purposes appropriate for university students. This course is a follow up of the previously taught ESP course.					
Class syllabus: This course's focus is to broaden spoken/communicational English for students with B2/C1 level of English knowledge.					
Recommended literature: Appropriate study material is supplied based on the participants' level of English by the lecturer. (Sources- The Guardian, The Herald Morning Sun. The Nine News, The West Australian, BBC News and podcasts, CNN podcasts).					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 263					
A	B	C	D	E	FX
72,62	10,65	5,32	1,52	1,14	8,75
Lecturers: Mgr. Aneta Barnes					

Last change: 11.04.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-234/13		Course title: English Conversation Course (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4., 6.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests, oral presentations, essays Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Continual improvement of all language skills focused on communication/speaking, listening comprehension and writing. The emphasis is on discourse, lexicology and morphology, word-bank broadening of communicational/spoken English as well as English for specific purpose appropriate for university students. This course is a follow up of the Conversational English course 1.					
Class syllabus: This course's focus is to broaden spoken/communicational English for students with B2/C1 level of English knowledge(Upper-Intermediate/Lower Advanced).					
Recommended literature: Appropriate study material is supplied based on the participants'level of English by the lecturer. (Sources- The Guardian, The Herald Morning Sun. The Nine News, The West Australian, BBC News and podcasts, CNN podcasts).					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 187					
A	B	C	D	E	FX
81,28	9,63	2,67	1,07	0,0	5,35
Lecturers: Mgr. Aneta Barnes					

Last change: 11.04.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KJP/1-MXX-131/00	Course title: English Language (1)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I.	
Prerequisites:	
Course requirements: Grades: A 93%, B 85%, C 77%, D 70%, E 65% Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebežneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The objective of the subject is to provide the students with experience and knowledge of technical English and thus make them ready to use English sources of information for later study and professional career.	
Class syllabus: On entering the first semester, students' knowledge of English is tested and they are divided into groups according to the results of the placement test. In the groups of pre-intermediate and intermediate students, fundamentals of technical English are taught. Advanced students take classes of technical English for their field of study: English for mathematics, for physics, for computer science, English for management and economic and financial mathematics.	
Recommended literature: Anglický jazyk pre študentov FMFI UK : Kurz pre mierne pokročilých / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Aplikovaná matematika / Alexandra Maďarová, Ľubomíra Kožehubová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Matematika / kolektív autorov KJP. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Fyzika / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Informatika / Elena Klátiková. The textbook has not been published. It is at students' disposal in an electronic format.	

Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 6667					
A	B	C	D	E	FX
29,71	23,62	18,09	12,49	7,74	8,34
Lecturers: Mgr. Eva Foltánová, Mgr. Ing. Jana Kočvarová, Mgr. Ľubomíra Kožehubová, Mgr. Alexandra Maďarová, PhDr. Alena Zemanová, Mgr. Aneta Barnes, Mgr. Simona Tomášková, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-132/00		Course title: English Language (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I.					
Prerequisites:					
Course requirements: Grades: A 93%, B 85%, C 77%, D 70%, E 65% Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: The objective of the subject is to provide the students with experience and knowledge of technical English and thus make them ready to use English sources of information for later study and professional career.					
Class syllabus: This is a continuation of the course English (1) designed for pre-intermediate students. Fundamental vocabulary is presented through selected topics in mathematics, physics and informatics. The lessons also contain revision of elementary grammar. Generally, it is a necessary preliminary to advanced programs.					
Recommended literature: Anglický jazyk pre študentov FMFI UK : Kurz pre mierne pokročilých / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format.					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 1672					
A	B	C	D	E	FX
22,19	20,81	24,16	15,01	11,0	6,82

Lecturers: PhDr. Alena Zemanová, Mgr. Ing. Jana Kočvarová, Mgr. Alexandra Maďarová, Mgr. Lubomíra Kožehubová, Mgr. Eva Foltánová, Mgr. Aneta Barnes, Mgr. Simona Tomášková, PhD.

Last change: 20.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KJP/1-MXX-231/00	Course title: English Language (3)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 3.	
Educational level: I.	
Prerequisites:	
Course requirements: Grades: A 93%, B 85%, C 77%, D 70%, E 65% Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebežneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The objective of the classes is to provide the students with knowledge of technical English in their field of study and experience with technical English sources sufficient to make the able to use technical language for their later study and professional purposes.	
Class syllabus: The subject continues the program of English (2). Students take classes of special English for their field of study: English for mathematics, English for physics, English for computer science, English for management and economic and financial mathematics. The subject requires advanced knowledge of general English.	
Recommended literature: Anglický jazyk pre študentov FMFI UK : Kurz pre mierne pokročilých / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Aplikovaná matematika / Alexandra Maďarová, Ľubomíra Kožehubová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Matematika / kolektív autorov KJP. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Fyzika / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Informatika / Elena Klátiková. The textbook has not been published. It is at students' disposal in an electronic format.	
Languages necessary to complete the course:	

Slovak, English					
Notes:					
Past grade distribution					
Total number of evaluated students: 1383					
A	B	C	D	E	FX
15,62	19,09	22,85	18,44	18,08	5,93
Lecturers: PhDr. Alena Zemanová, Mgr. Ing. Jana Kočvarová, Mgr. Alexandra Maďarová, Mgr. Lubomíra Kožehubová, Mgr. Eva Foltánová, Mgr. Aneta Barnes, Mgr. Simona Tomášková, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KJP/1-MXX-232/10	Course title: English Language (4)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I.	
Prerequisites:	
Course requirements: Examination: an examination consisting of a written and an oral part. Grades: A 93%, B 85%, C 77%, D 70%, E 65% Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/skuska-z-predmetu-anglicky-jazyk-4/ Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completing the course, students will be able to work independently with professional literature in English	
Class syllabus: Students take classes of special English for their field of study: English for mathematics, English for physics, English for computer science, English for management and economic and financial mathematics.	
Recommended literature: Anglický jazyk pre študentov FMFI UK : Kurz pre mierne pokročilých / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Aplikovaná matematika / Alexandra Maďarová, Ľubomíra Kožehubová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Matematika / kolektív autorov KJP. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Fyzika / Alena Zemanová. The textbook has not been published. It is at students' disposal in an electronic format. Anglický jazyk pre študentov FMFI UK : Informatika / Elena Klátiková. The textbook has not been published. It is at students' disposal in an electronic format.	
Languages necessary to complete the course: Slovak, English	

Notes:					
Past grade distribution Total number of evaluated students: 3683					
A	B	C	D	E	FX
26,64	28,18	21,59	11,46	5,81	6,33
Lecturers: Mgr. Ing. Jana Kočvarová, Mgr. Alexandra Maďarová, PhDr. Alena Zemanová, Mgr. Lubomíra Kožehubová, Mgr. Eva Foltánová, Mgr. Aneta Barnes, Mgr. Simona Tomášková, PhD.					
Last change: 17.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KGP/N-bUGE-007/22			Course title: Essentials of Geology			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 4						
A	ABS	B	C	D	E	FX
0,0	0,0	25,0	0,0	25,0	50,0	0,0
Lecturers: doc. RNDr. Daniel Pivko, PhD.						
Last change: 06.11.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bUGE-035/22		Course title: Essentials of Political and Regional Geography for Teachers				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 1 / 1 per level/semester: 13 / 13 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 50						
A	ABS	B	C	D	E	FX
20,0	0,0	22,0	16,0	14,0	4,0	24,0
Lecturers: doc. RNDr. Daniel Gurňák, PhD.						
Last change: 23.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZXX-006/22		Course title: Excursion from Physical Geography				
Educational activities: Type of activities: excursion Number of hours: per week: per level/semester: 5d Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 1						
A	ABS	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: RNDr. Ivan Ružek, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bUGE-012/22		Course title: Excursion from Physical and Human Geography				
Educational activities: Type of activities: excursion Number of hours: per week: per level/semester: 5d Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 36						
A	ABS	B	C	D	E	FX
58,33	0,0	33,33	5,56	0,0	0,0	2,78
Lecturers: RNDr. Ivan Ružek, PhD., doc. Mgr. Marcel Horňák, PhD., Mgr. Juraj Majo, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KGP/N-bUGE-008/22			Course title: Exercises in Geology			
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 3						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	33,33	66,67	0,0
Lecturers: doc. RNDr. Daniel Pivko, PhD.						
Last change:						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KJP/1-MXX-141/00		Course title: French Language (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: French language is taught at two levels: beginner and intermediate. Students opt for one of them depending on whether they wish to obtain the fundamentals of the language or wish to maintain and/or improve previous knowledge of French.					
Recommended literature: Capelle Guy, Menand Robert: Le Nouveau taxi 1, Hachette FLE Paris, France 2009, ISBN 978-2-01-155548 - 9					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 469					
A	B	C	D	E	FX
47,97	19,4	17,48	8,32	2,13	4,69
Lecturers: Mgr. Ľubomíra Kožehubová					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-142/00		Course title: French Language (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: The subject continues the program of French language (1) and provides courses of essential and intermediate French language.					
Recommended literature: Capelle Guy, Menand Robert: Le Nouveau taxi 1, Hachette FLE Paris, France 2009, ISBN 978-2-01-155548 - 9					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 292					
A	B	C	D	E	FX
44,18	22,95	17,81	9,25	2,4	3,42
Lecturers: Mgr. Ľubomíra Kožehubová					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KJP/1-MXX-241/00		Course title: French Language (3)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: The subject provides a course of intermediate French language, covering not only general, but also technical language.					
Recommended literature: Capelle Guy, Menand Robert: Le Nouveau taxi 1, Hachette FLE Paris, France 2009, ISBN 978-2-01-155548 - 9					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 112					
A	B	C	D	E	FX
42,86	26,79	19,64	6,25	0,89	3,57
Lecturers: Mgr. Ľubomíra Kožehubová					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-242/00		Course title: French Language (4)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: The subject provides a course of intermediate French covering not only general, but also technical French language.					
Recommended literature: Menand Robert: Le Nouveau taxi 2, Hachette FLE, Paris, France 2009, ISBN 978-2-01-155551 - 9					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 76					
A	B	C	D	E	FX
43,42	31,58	17,11	2,63	1,32	3,95
Lecturers: Mgr. Ľubomíra Kožehubová					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bUGE-026/22		Course title: Fundamentals of Cartography and Geoinformatics				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 82						
A	ABS	B	C	D	E	FX
0,0	0,0	8,54	29,27	41,46	6,1	14,63
Lecturers: Mgr. Alexandra Benová, PhD., Mgr. Miroslav Kožuch, PhD., doc. RNDr. Eva Mičietová, CSc., Mgr. Richard Feciskanin, PhD., Mgr. Filip Moravčík, Mgr. Vladimír Pelech, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-031/22		Course title: Geography of Sports and Sport Events				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 3.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 10						
A	ABS	B	C	D	E	FX
80,0	0,0	20,0	0,0	0,0	0,0	0,0
Lecturers: doc. Mgr. Vladimír Bačík, PhD., RNDr. Michal Klobučník, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-015/22			Course title: Geography of Tourism and Its Current Problems			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 64						
A	ABS	B	C	D	E	FX
40,63	0,0	12,5	25,0	12,5	4,69	4,69
Lecturers: Mgr. Ingrid Bučková, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-014/22			Course title: Geography of Transport and Logistics			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 3.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 57						
A	ABS	B	C	D	E	FX
8,77	0,0	31,58	36,84	14,04	7,02	1,75
Lecturers: doc. Mgr. Marcel Horňák, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-029/22			Course title: Geoinformatics for Human Geography and Demography			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 3						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	33,33	33,33	0,0	33,33
Lecturers: doc. Mgr. Vladimír Bačík, PhD., doc. RNDr. Dagmar Kusendová, CSc.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZXX-136/22			Course title: Geomorphology			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 72						
A	ABS	B	C	D	E	FX
9,72	0,0	9,72	16,67	18,06	18,06	27,78
Lecturers: prof. RNDr. Jozef Minár, CSc., Mgr. Juraj Procházka, PhD.						
Last change: 27.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bUGE-027/22			Course title: Geomorphology – Basic Practical Course			
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 1						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	100,0	0,0	0,0
Lecturers: Mgr. Juraj Procházka, PhD., Mgr. Veronika Beranová, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-151/00		Course title: German Language (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: To master the fundamentals of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency)					
Class syllabus: German language is taught at three levels: beginner, intermediate and advanced. Students opt for one of them depending on whether they need to learn the fundamentals or maintain and/or improve their previous knowledge. This course's focus is to master the fundamentals of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency)					
Recommended literature: Appropriate study material is supplied by teacher based on the participants'level of German proficiency.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 795					
A	B	C	D	E	FX
38,11	25,66	18,74	8,93	2,64	5,91
Lecturers: Mgr. Alexandra Maďarová, Mgr. Simona Tomášková, PhD.					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-152/00		Course title: German Language (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: To master the fundamentals of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency)					
Class syllabus: German language is taught at two levels: beginner and intermediate. Students opt for one of them depending on whether they wish to obtain the fundamentals of the language or wish to maintain and/or improve previous knowledge of German. This course's focus is to to master the fundamentals of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency)					
Recommended literature: Appropriate study material is supplied by teacher based on the participants'level of German proficiency					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 511					
A	B	C	D	E	FX
38,55	19,57	19,96	12,33	3,33	6,26
Lecturers: Mgr. Alexandra Maďarová, Mgr. Simona Tomášková, PhD.					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-251/00		Course title: German Language (3)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Master the basics of general language and basic professional terminology of individual fields of study (depending on the advanced level of students)					
Class syllabus: The course is a follow-up to the German language (1,2). The subject provides a course of intermediate or advanced German language. This course's focus is to deepen the knowledge of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency).					
Recommended literature: Appropriate study material is supplied by teacher based on the participants' level of German proficiency.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 176					
A	B	C	D	E	FX
43,75	23,86	19,89	6,82	2,27	3,41
Lecturers: Mgr. Alexandra Maďarová, Mgr. Simona Tomášková, PhD.					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-252/00		Course title: German Language (4)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Master the basics of general language and basic professional terminology of individual fields of study (depending on the advanced level of students)					
Class syllabus: The course is a follow-up to the German language (1-3). It provides a course of intermediate and advanced German language. This course's focus is to deepen the knowledge of the common language and basic technical terms of particular fields of study (depending on the student's level of German proficiency).					
Recommended literature: Appropriate study material is supplied by teacher based on the participants' level of German proficiency.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 97					
A	B	C	D	E	FX
45,36	22,68	12,37	11,34	3,09	5,15
Lecturers: Mgr. Alexandra Maďarová, Mgr. Simona Tomášková, PhD.					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bUGE-036/22		Course title: Historical Geography for Teachers				
Educational activities: Type of activities: lecture Number of hours: per week: 3 per level/semester: 39 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 15						
A	ABS	B	C	D	E	FX
0,0	0,0	13,33	20,0	20,0	13,33	33,33
Lecturers: doc. RNDr. Daniel Gurňák, PhD.						
Last change: 23.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-018/22		Course title: Human Settlements and Their Transformation - Geography of Settlements and Urban Development				
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 3., 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 10						
A	ABS	B	C	D	E	FX
30,0	0,0	40,0	0,0	10,0	10,0	10,0
Lecturers: prof. RNDr. Ján Buček, CSc., RNDr. Michal Klobučník, PhD.						
Last change: 14.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAI/1-MXX-491/22	Course title: Inclusive Approaches to Education of Students with Special Educational Needs
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1., 3.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: active participation in class (elaboration of assigned tasks, participation in discussions) An exam: - Indicative assessment level: e.g. A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - They will get acquainted with the basic characteristics of types of health disadvantage (HR) and will know the consequences of HR on education. - Gain personal experience from meetings with people with disabilities and will be able to explain and apply the rules of communication with them. - Can characterize the forms of education of students with SEN and assess the possibilities of their pedagogical, technical and human support, which positively affect the success of education.	
Class syllabus: - Characteristics of basic concepts. - Disability models. - Disability legislation. - Human, communication, information and architectural barriers. - Impact of disability on education. - Segregation - integration - inclusion. - Information access technologies for people with disabilities. - Possibilities and limits of creating equal conditions for the education of pupils with specific educational needs. - Inclusive school - education for all. - The importance of education for the social inclusion of people with disabilities.	
Recommended literature:	

- Lechta, V. (ed): Inkluzivní pedagogika. Praha: Portál, 2016, ISBN 978-80-262-1123-5
- Slowík, J.: Komunikace s lidmi a postižením. Praha: Portál, 2010, ISBN 978-80-7367-691-9
- Kol. autorov: Od integrácie k inklúzii. VÚDPaP: Bratislava, 2018, ISBN 978-80-89698-27-1

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 89

A	B	C	D	E	FX
69,66	23,6	4,49	0,0	0,0	2,25

Lecturers: Mgr. Ľudmila Hlinová

Last change: 15.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-121/22	Course title: Infomatics (1)
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 1.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: The student can get 40% points for working in seminars, another 20% for independent creative work and the remaining 20% for writing a paper. Exam: practical exam 20% points Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 80/20	
Learning outcomes: The student: - will gain first-hand experience with various topics of theoretical computer science, which he will encounter during his further study - can discuss the presented IT problems and their use - analyzes various approaches to solving the presented IT problems in terms of their usability and effectiveness (at an intuitive level) - is able to design their own solutions to these problems, or modifications of existing solutions, on the basis of various criteria - is able to evaluate the correctness of solutions and discuss their improvements	
Class syllabus: 1. number systems 2. encoding (text, images, sound ...) 3. code error detection, self-correcting codes 4. Huffman coding, compression 5. logic operations, logic, logic circuits 6. logic programming 7. trees, binary search trees, decision trees 8. simple graphs and work with them 9. encryption - classic ciphers 10. symmetric and asymmetric encryption	
Recommended literature:	

Sedem divov informatiky / Juraj Hromkovic; translation by Michal Winczer. Ruzomberok: Verbum, 2012
Algorithmic Puzzles / Anany Levitin, Maria Levitin. Oxford University Press Inc, 2011
Tasks and methodologies at: <http://csunplugged.org/>
Task archive on the website: www.prask.ksp.sk
own electronic texts published on the website, resp. in the Moodle environment

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 36

A	B	C	D	E	FX
61,11	27,78	8,33	0,0	2,78	0,0

Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD., PaedDr. Daniela Bezáková, PhD., Mgr. Lucia Budinská, PhD.

Last change: 20.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-322/22	Course title: Informatics (2)
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 3.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: The student can get 50% of points for work in seminars, another 25% for independent creative work and the remaining 25% for the elaboration of a paper. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - will gain practical experience with various topics of theoretical computer science, which he encounters during his studies - is able to discuss the presented IT problems and uses knowledge from other subjects to solve them - analyzes various approaches to solving the presented IT problems in terms of their usability and effectiveness (at an intuitive level) - is able to design their own solutions to these problems, or modifications of existing solutions, on the basis of various criteria - is able to evaluate the correctness of solutions and discuss their improvements	
Class syllabus: - sorting - information theory - languages and grammars - algorithmic solvability of problems - finite automata - determinism and nondeterminism - more complex coding - encryption - problems from graph theory - paths, skeletons - problems from graph theory - coloring, coverage	
Recommended literature:	

Sedem divov informatiky / Juraj Hromkovic; translation by Michal Winczer. Ruzomberok: Verbum, 2012
 Algorithmic Puzzles / Anany Levitin, Maria Levitin. Oxford University Press Inc, 2011
 Discrete and Combinatorial Mathematics: An Applied Introduction, 5th Editirion / Ralph P. Grimaldi. Pearson, 2003
 Introduction to Automata Theory, Languages, and Computation / J. Hopcroft, et. al. Pearson, 2006
 Tasks and methodologies at: <http://csunplugged.org/>
 Task archive on the website: www.prask.ksp.sk
 own electronic texts published on the website, resp. in the Moodle environment

Languages necessary to complete the course:
 Slovak

Notes:

Past grade distribution

Total number of evaluated students: 20

A	B	C	D	E	FX
50,0	15,0	15,0	15,0	0,0	5,0

Lecturers: RNDr. Michal Winczer, PhD., doc. PaedDr. Monika Tomcsányiová, PhD.

Last change: 20.06.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-951/15	Course title: Informatics for Teachers
Number of credits: 2	
Educational level: I.	
Learning outcomes: State examination for the completion of a bachelor's degree in teacher education in combination with computer science.	
Class syllabus: Programming in a higher level programming language. PPE and its principles. Basic mathematical concepts and principles needed to solve problems in the practice of computer science teachers. Mathematical structures (graphs, formal languages and automata, fractals). Creation of an educational program for the subject of informatics at primary and secondary school. Data structures (list, stack, row, trees, lexicographic trees, graphs). Parallel processes. Solving tasks in school informatics at primary and secondary school in a programming language that is suitable for a given level of education.	
State exam syllabus: State examination for the completion of a bachelor's degree in teacher education in combination with informaticsInformatics 1. Data types in the Scratch environment. 2. New (custom) blocks in the Scratch environment. 3. Using text files in the Scratch environment. 4. Multiple characters in a Scratch environment. 5. Keyboard and mouse events in the Scratch environment. 6. Advanced Scratch environment options, custom variables. 7. Working with the field. Associative fields. (Python) 8. Characteristics of object-oriented programming. Classes. Inheritance. (Python) 9. Characteristics and use of files. Text files and ways to work with them. (Python) 10. Working with graphic information. Working with the tkinter module. (Python) 11. Turtle graphics. Recursion. Working with the turtle module. (Python) 12. Dynamic data structures. 13. Representation of sets. 14. Finding information in tables 15. Sorting algorithms. Didactics of informatics 1. Teaching informatics at primary and secondary schools. Basic school documents. General and partial educational goals. Facts, concepts, generalizations. 2. Taxonomy of educational goals. Significance of taxonomies, levels of cognitive taxonomy (Bloom). 3. Preparation of a lesson for work with a spreadsheet editor at elementary school. 4. Preparation of a lesson on security in high school.	

5. Children's programming languages. Features of a programming language that is suitable for teaching programming to students at the 2nd level of elementary school. Comparison Karel, Scratch. 6. Digital technologies in teaching. 7. E-learning. Advantages and disadvantages of various forms of e-learning. Risks and pitfalls of e-learning. 8. Use of software in education. 9. Organizational forms. 10. Evaluation. Forms and functions of evaluation. 11. Didactic principles.
Recommended literature: Literature recommended by individual subjects during the whole bachelor study.
Languages necessary to complete the course: Slovak
Last change: 31.05.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-343/22	Course title: Interesting Extracurricular Activities
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Interim evaluation: Active participation; during the semester, students prepare a written semester work. Indicative rating scale A = (90, 100]%, B = (80, 90]%, C = (70, 80]%, D: (60, 70]%, E: (50, 60]%. Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: Student by completing the course: - acquire basic knowledge about the specifics of leading hobby groups, - acquire basic knowledge of the specifics of working with different age groups and age-mixed groups, - will be able to actively apply selected methods of non-formal and informal learning, - will be able to develop interdisciplinary relationships.	
Class syllabus: - Formal, non-formal and informal learning. - Objectives of extracurricular activities - knowledge, skills, attitudes, relationships. - Situation analysis - condition analysis, environment analysis and needs analysis. - Organizational forms of extracurricular leisure activities. - Methods of work in the department of interest. - Examples of good practice.	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment Pešek, T., Škrabský, T., Novosádová, M., Dočkalová, J. 2019. The syllabary of non-formal education in youth work, Bratislava, YouthWatch, ISBN 978-80-973031-2-9	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Viera Haverlíková, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-524/22	Course title: Introduction to Information Security
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-141/22 - Programming (2) or FMFI.KDMFI/1-UIN-141/15 - Programming (2)	
Course requirements: Continuous assessment: The student can get 80% points for active participation in seminars and problem solving. Exam: A student can get 20% of points for completing a written test. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 80/20	
Learning outcomes: The student: - acquire terminology in the field of IB - can identify and describe security vulnerabilities and risks - manages to imitate a fictitious attacker and demonstrate a simple attack	
Class syllabus: - Basic terminology on IB - Information security vs. privacy protection - Methods of social engineering - Basics of computer networks - Network attacks - Symmetric and asymmetric cryptography - Certificates - Passwords and hashing - Code vulnerabilities - Protective mechanisms	
Recommended literature: Zeman, M., Oster, J., Blšák, M., Chromek D. : Textbook of information security for secondary vocational schools and grammar schools Tomková, J., Kubovič, O., Kučera, P., Daubner, J. : Handbook on digital security for primary and secondary school teachers	

own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 17					
A	B	C	D	E	FX
64,71	23,53	5,88	5,88	0,0	0,0
Lecturers: prof. RNDr. Ivan Kalaš, PhD., Mgr. Tomáš Kubla					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-423/22	Course title: Introduction to Solving Computer Science Problems
Educational activities: Type of activities: course Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 4.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-322/22 - Informatics (2)	
Course requirements: Continuous assessment: The student can get 30% of points for work in seminars, 20% of points for independent creative work. He can get 50% of points for solving homework. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - gain practical experience with programming solutions to more complex IT tasks - is able to discuss different approaches to solving the presented IT problems - analyzes various approaches to solving the presented IT problems, considers marginal cases - is able to identify what methods to use to solve specific tasks and design and program their own solution - can evaluate the correctness of solutions, their algorithmic complexity and efficiency	
Class syllabus: - naive approaches to problem solving - greedy algorithms - programming solution of logic problems - Divide and rule - dynamic programming - recursion - backtracking - state space search - hashing - optimization of algorithms	
Recommended literature: Algorithmic Puzzles / Anany Levitin, Maria Levitin. Oxford University Press Inc, 2011 Task archive on the website: www.prask.ksp.sk Task archive on the website: www.ksp.sk	

own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 6					
A	B	C	D	E	FX
33,33	50,0	16,67	0,0	0,0	0,0
Lecturers: PaedDr. Daniela Bezáková, PhD., doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-035/22			Course title: Introduction to Spatial Statistical Analysis			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Pavol Ďurček, PhD., Mgr. Gabriela Nováková, PhD.						
Last change: 13.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-355/22	Course title: Introduction to Web Documents Formation
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.	
Prerequisites: FMFI.KDMFI/1-UIN-141/22 - Programming (2) or FMFI.KDMFI/1-UIN-141/15 - Programming (2)	
Antirequisites: FMFI.KDMFI/1-AIN-112/15	
Course requirements: Continuous assessment: tasks (90%), project (10%) Exam: practical Indicative assessment scale: A 90%, B 80%, C 70%, D 65%, E 60% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: After completing the course, students will be able to create a correct website (in HTML) with the correct structure and properly formatted content. The design will be solved using CSS, while it will be adapted to different devices. The site will meet the basic conditions of accessibility for people with special needs.	
Class syllabus: - HTML - structuring of the document, elements for content formatting, basic elements of the page, including multimedia objects, checking the correctness of the code, tables, forms and their appropriate structuring. - Cascading Style Sheets (CSS) - properties and their values, selectors, pseudo-classes, properties for formatting fonts and text, tables and other objects, colors, backgrounds, lengths, units, box model, object placement, visual document formatting, styles for various devices , Media Queries, additional CSS options with respect to current versions. - Basic information about website accessibility.	
Recommended literature: Elizabeth Castro: HTML5 & CSS3 Visual Quickstart Guide, Computer Press, 2012, ISBN 9788025137338 Marek Laurenčík: Web Design in HTML and CSS, Grada, 2019, ISBN 9788027122417 Daniela Bezáková et al .: Data Creation and Presentation, Bratislava: Center for Scientific and Technical Information of the Slovak Republic, 2020 ISBN 978-80-89965-67-0 own electronic texts published on the website, resp. in the Moodle environment	

Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 85					
A	B	C	D	E	FX
41,18	15,29	15,29	3,53	15,29	9,41
Lecturers: doc. RNDr. Ľudmila Jašková, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bUGE-032/22		Course title: Introduction to the Study of Geography and Planetar Geography				
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 81						
A	ABS	B	C	D	E	FX
11,11	0,0	11,11	29,63	20,99	22,22	4,94
Lecturers: prof. RNDr. Ladislav Tolmáči, PhD.						
Last change: 11.10.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KAI/1-AIN-406/22		Course title: Language and Cognition			
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 3					
Recommended semester: 2., 4., 6.					
Educational level: I.					
Prerequisites:					
Course requirements: Continuous assessment: presentations, bonus assignments Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Acquisition of the most important current theories and methods of studying natural language and cognitive processes.					
Class syllabus: The course focuses on the most important aspects of natural language research (the most complex cognitive function): basic properties of language (arbitrariness, generative productivity, dynamism, structuring at many levels), mechanisms of speech production and perception, language acquisition, innate and acquired factors of language development.					
Recommended literature: G. Dorren: Babel. Around the World in 20 Languages. Profile Books, 2019 S. Pinker: Language Instinct. †Brilliance Audio, 2014 S. Pinker: The Stuff of Thought. Language as a Window Into Human Nature. Penguin Books 2008 S. Pinker: Words and Rules. The Ingredients of Language. Basic Books 2015					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 135					
A	B	C	D	E	FX
34,81	25,19	16,3	11,11	6,67	5,93
Lecturers: doc. PhDr. Ján Rybár, PhD.					

Last change: 17.05.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-345/22	Course title: Linux
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information talk, 1h/week, online synchronous training, 1h/week, online synchronous	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: practical computer tasks 60% Exam: practical computer test 40% Indicative assessment scale: A 92%, B 84%, C 76%, D 68%, E 60% Scale of assessment (preliminary/final): 60/40	
Learning outcomes: The student: - knows the principle and function of the command line - knows the principles of operation of the GNU / Linux operating system - knows and understands the basic components of the GNU / Linux OS such as process, file system, user administration, access rights, ... - recognizes and applies a set of commands according to scenarios - creates a "one - line compound command" or a simple task assignment script	
Class syllabus: - History and philosophy of GNU / Linux. Text console. File system navigation. (pwd, ls, cd, less, cat, man, w, exit, ssh, mosh, ...) - Folders and files (mkdir, rmdir, rm, cp, mv, ...) - Users, groups, redirects and search. Regular expressions. (id, su, passwd, grep, ...) - Attributes of files and folders (chown, chgrp, chmod, ...) - Text editor I know - File sorting and selection commands (sort, head, tail, nl, uniq, tac, shuf) - File system search (find) - Processes (ps, top, kill) - sed - stream editor - Processing with awk	

- Basics of bash scripts					
Recommended literature: vlastné elektronické texty zverejňované na webovej stránke elektronické materiály, tutoriály a manuály k operačnému systému Linux					
Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 48					
A	B	C	D	E	FX
87,5	2,08	0,0	8,33	2,08	0,0
Lecturers: RNDr. Marek Nagy, PhD., doc. RNDr. Ľubomír Salanci, PhD.					
Last change: 23.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bUGE-034/22			Course title: Macro-regions of the Earth			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 39						
A	ABS	B	C	D	E	FX
0,0	0,0	12,82	46,15	28,21	5,13	7,69
Lecturers: Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD., Mgr. Gabriel Zubriczký, PhD.						
Last change: 23.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-101/22	Course title: Mathematics for Informatics Teachers (1)
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 2.	
Educational level: I.	
Prerequisites: FMFI.KDMFI/1-UIN-121/22 - Informatics (1)	
Course requirements: Continuous assessment: The student will receive 30% points for active work in exercises, 30% points for homework and 40% points for papers. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - will be able to defend or refute mathematical statements (from given topics) - can combine and apply knowledge from different mathematical areas - acquire mathematical culture, way of thinking and expression	
Class syllabus: Course contents: - Mathematical expressions - Propositional logic - Predicate logic - Introduction to number theory - Types of evidence - Mathematical induction - Sets - Sessions - Features - Combinatorics	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment Olejár, D., Škoviera, M. : Discrete Mathematics 1: Introduction to Set Theory, Theory of Boolean Functions and Mathematical Logic. Bratislava: Comenius University, 1992 Matoušek, J., Nešetřil, J. : Chapters from discrete mathematics. Charles University, 2009	
Languages necessary to complete the course:	

Slovak					
Notes:					
Past grade distribution					
Total number of evaluated students: 80					
A	B	C	D	E	FX
28,75	25,0	21,25	7,5	10,0	7,5
Lecturers: PaedDr. Daniela Bezáková, PhD., doc. RNDr. Zuzana Kubincová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-102/22	Course title: Mathematics for Informatics Teachers (2)
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 3.	
Educational level: I.	
Prerequisites: FMFI.KDMFI/1-UIN-101/22 - Mathematics for Informatics Teachers (1) or FMFI.KDMFI+KAI/1-UIN-101/15 - Mathematics for Informatics Teachers (1)	
Course requirements: active participation in seminars and at least 50% of the ongoing evaluation Continuous assessment: homework (50%), papers (50%) Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - will be able to classify different types of graphs and construct a graph with given properties - will be able to use analytical geometry to solve selected problems of planimetry - can explain and apply the relationship between totals and recurrence - will be able to apply the acquired knowledge in programming	
Class syllabus: - Graphs - basic concepts, representations, types of graphs - Graph continuity, graph travel - Distances in graphs - Trees, skeletons - Eulerian graphs - Analytic geometry in the plane - vectors - Analytical geometry in the plane - lines - Analytical geometry in the plane - circle - Sums - Recurrence	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment Knor, M. Combinatorics and Graph Theory I, Comenius University, Bratislava, 2000 Belan, A. Analytic geometry for those who need to understand it	
Languages necessary to complete the course:	

Slovak					
Notes:					
Past grade distribution					
Total number of evaluated students: 57					
A	B	C	D	E	FX
38,6	17,54	28,07	5,26	7,02	3,51
Lecturers: PaedDr. Daniela Bezáková, PhD., doc. RNDr. Zuzana Kubincová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bUGE-024/22		Course title: Meteorology, Climatology and Hydrology				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 3 / 1 per level/semester: 39 / 13 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 44						
A	ABS	B	C	D	E	FX
31,82	0,0	36,36	15,91	2,27	6,82	6,82
Lecturers: RNDr. Norbert Polčák, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-032/22			Course title: Mobility, Migration Flows and Their Management			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 1						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	100,0
Lecturers: prof. RNDr. Branislav Bleha, PhD., Mgr. Marcela Káčerová, PhD.						
Last change: 14.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-138/22	Course title: Modern Teacher Software
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 2.	
Educational level: I.	
Prerequisites: FMFI.KDMFI/1-UXX-137/22 - Digital Literacy	
Course requirements: Continuous assessment: project - course website (25%), assignments (75%) Indicative grading scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Students will be able to assess what activities teachers do and how digital technology can help them do this. They are familiar with digital tools for creating attractive educational materials and have their own experience with them. They are able to use digital tools to create learning materials that focus on discovery learning where the activity is in the hands of the learner. They are familiar with frequently used complex learning management systems (LMS). They are able to evaluate the strengths and weaknesses of using an LMS for specific activities of teaching practice and are familiar with alternative software that allows some of these activities to be carried out more efficiently. They are able to create their own website and add different forms of content to it. They are able to reflect on the use of specific digital tools in their future teaching. They are able to find the appropriate digital tools for a given activity, analyse them and, based on this analysis, choose among competing tools the one that additionally meets their needs.	
Class syllabus: Students work on a variety of topics using digital technologies and assess how they perceive their potential in their teaching practice. They publish the products of their work along with a reflection on the topic on their website. The topics they are working on include: The use of digital tools in the classroom Creating your own digital learning materials Working with graphics, photo editing, creating animations Working with video Working with sound Learning management systems	

Creating mind maps					
Recommended literature: Design of digital educational environment / Michal Černý. Brno: Flow, 2020. own electronic texts published on the website, resp. in the Moodle environment					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 162					
A	B	C	D	E	FX
72,84	14,81	6,17	0,0	1,85	4,32
Lecturers: Mgr. Mária Čujdíková, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-346/15	Course title: Multimedia
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous assessment: Students can get 100% points for completing assignments on individual topics. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Students are able to create and edit a variety of multimedia content. They can use digital tools to process graphics, audio and video. They understand the principles of digital media processing. They are able to integrate outdoor activities into the classroom using mobile applications and design assignments for this type of learning activity. They are able to use virtual and augmented reality in education.	
Class syllabus: - creation of graphic design using online tools - photo editing - work with 3D graphics - working with vector graphics in a children's programming environment - collaborative creation and verification of outdoor educational activities using a mobile application - Collaborative video creation and processing using more complex editing - work with sound in video editor - getting acquainted with the possibilities of using virtual and augmented reality in education	
Recommended literature:	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 20					
A	B	C	D	E	FX
80,0	15,0	5,0	0,0	0,0	0,0
Lecturers: Mgr. Mária Čujdíková, PhD., doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAI/1-UXX-231/22	Course title: Pedagogic Communication
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 13 / 13 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I., II.	
Prerequisites:	
Antirequisites: FMFI-Prif.KDPP/1-UXX-231/10	
Course requirements: The course is completed by assessment, the ratio of interim/final assessment is 80/20. The condition for successful completion of the course is obtaining at least 60 % of the maximum possible course grade. Assignments during the semester in the form of micro-assignments, model communication situations, student-designed and recorded video sequences, analysis of recordings, and an emphasis on strengthening communication competencies and skills will be assessed. Assessment will be given on a scale: A: 93-100%, excellent - outstanding results, B: 85-92%, very good - above average standard, C: 76-84%, good - normal reliable work, D: 68-75%, satisfactory - acceptable results, E: 60-67%, satisfactory - results meet minimum criteria, Fx: 0-59%, inadequate - extra work required Translated with www.DeepL.com/Translator (free version) Scale of assessment (preliminary/final): 80/20	
Learning outcomes: Upon successful completion of the course, students have knowledge of the principles of effective pedagogical communication. They are able to analyze communication episodes, identify problematic communication aspects and create communication opportunities and learning environments that promote student participation in the classroom. They understand the importance and methods of managing pedagogical communication in school classrooms. They can anticipate and respond appropriately to a variety of communication situations. Through the implementation of micro-outcomes and other forms of training in effective pedagogical communication, they are able to apply the acquired theoretical knowledge in the practice of primary and secondary schools.	
Class syllabus: Insights into the phylogenetic and ontogenetic aspects of interpersonal communication, social communication, interaction.	

Communication styles, communication competences and skills of future teachers, their practice and strengthening.

Pedagogical communication -functions, planes, ways, components, directions, effectiveness, basic rules, organizational forms of pedagogical communication, non-verbal (extralinguistic means and paralinguistic aspects of speech) and verbal (written and oral) communication in the school classroom, teacher management of communication (questions, feedback), pupil participation in communication, persuasion, argumentation, criticism, school language, IRF/IRE structure, communication by action in the classroom, space in communication, methods of investigating pedagogical communication.

Types of conflict in school settings, strategies and methods of conflict resolution.

Errors in pedagogical communication. Humour in the school classroom.

Intergenerational communication in education.

Recommended literature:

BARKER, A. 2020. Zlepšete své komunikační schopnosti. Lingea.

GAVORA, P. 2007. Učiteľ a žiaci v komunikácii. Bratislava : UK.

HALÁKOVÁ, Z. 2012. Pedagogická komunikácia. 1. vyd., Bratislava : Univerzita Komenského.

MAREŠ, J., KŘIVOHLAVÝ, I. 1995. Komunikace ve škole. Brno : Masarykova univerzita.

MIKULÁŠTÍK, M. 2003. Komunikační dovednosti v praxi. Praha : Grada Publishing.

NELEŠOVSKÁ, A. 2005. Pedagogická komunikace v teorii a praxi. Praha : Grada.

PECH, J. 2009. Řeč těla a umění komunikace. Praha : NS Svoboda.

ŠEĐOVÁ, K. 2013. Humor ve škole. Brno : Masarykova univerzita.

ŠEĐOVÁ, K. a kol. 2019. Výuková komunikace. Brno: Masarykova univerzita.

ŠEĐOVÁ, K., ŠVARÍČEK, R., ŠALAMOUNOVÁ Z. 2012. Komunikace ve školní třídě. Praha : Portál.

ŠTĚPANÍK, J. 2005. Umění jednat s lidmi 2. Komunikace. Praha : Grada.

VYBÍRAL, Z. a kol. 2009. Psychologie komunikace. Praha : Portál.

aktuálne články a štúdie

Languages necessary to complete the course:

Slovak, Czech

Notes:

Past grade distribution

Total number of evaluated students: 114

A	B	C	D	E	FX
82,46	7,89	0,88	2,63	2,63	3,51

Lecturers: doc. RNDr. Martin Takáč, PhD.

Last change: 20.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-143/22	Course title: Pedagogical Interviews
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.	
Prerequisites:	
Course requirements: active participation in classes (discussion, presentation of opinions, ...) (80%), homeworks (reading texts, preparation of essays and presentations ...) (20%) Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: The student: - begins to think about education from the teacher's point of view. - is able to discuss personal and educational challenges in the teaching profession. - will be able to identify, compare and express a constructive opinion on the current state of the school in the context of modern concepts of education. - will perceive the potential of the teaching profession to positively influence the quality of life of its students.	
Class syllabus: Course contents: - from student to teacher - vision of modern education - the teacher as a positive role model - creativity in professional subjects - a school where students enjoy - personal development - how to burn and not burn - a school for everyone	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment JANÍK, T .: Myths of False Error. About chibas in education and pedagogy. Masaryk University. 2020. ČOKYNA, J .: And where are your edges? N Press. 2019	

KUBÍKOVÁ, S .: Klub nezbitných detí. Seven things that will help your children survive in modern times. Diary Postoj 2018.
JANÍK, T .: Lessons from pedagogy: Everything for education. Ammunition 2021

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 0

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

Lecturers: prof. RNDr. Ivan Kalaš, PhD., Mgr. Karolína Miková, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-065/22			Course title: Pedology and Pedogeography			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 3.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 35						
A	ABS	B	C	D	E	FX
11,43	0,0	14,29	8,57	14,29	45,71	5,71
Lecturers: doc. Ing. Peter Pišút, PhD., RNDr. Marián Jenčo, PhD.						
Last change: 28.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZFG-066/22			Course title: Pedology and Pedogeography – Practical Course			
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 13 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 3.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 24						
A	ABS	B	C	D	E	FX
58,33	0,0	20,83	8,33	4,17	4,17	4,17
Lecturers: Mgr. Romana Kohilová, doc. Ing. Peter Pišút, PhD., RNDr. Marián Jenčo, PhD.						
Last change: 29.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-110/00		Course title: Physical Education and Sport (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 0					
Recommended semester: 1.					
Educational level: I.					
Prerequisites:					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Orientation in the history of the selected sports discipline, mastering the basic principles of compensation of mostly mental burdens of the individual. Creating a positive, lasting relationship to physical education and sports in the sense of calocagation. Mastering the demands for the development of motor abilities, skills, proper technique of performing individual movements in individual sports, individual game activities in collective sports games.					
Class syllabus: Introduction to the basic history of the selected sport, with the basic principles of compensation of one-sided psychological burden of the individual's body. Development of basic motor skills with a stop to all kinds of endurance, coordination, increasing the level of joint mobility. Training of individual game activities in collective sports games. In individual sports disciplines, practice of basic techniques of individual elements.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 6546					
A	B	C	D	E	FX
93,89	1,63	0,17	0,0	0,06	4,25
Lecturers: Mgr. Ladislav Mókus, PaedDr. Dana Mašlejová, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký					

Last change: 16.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-120/22		Course title: Physical Education and Sport (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 2.					
Educational level: I.					
Prerequisites:					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Addressing a positive and lasting relationship with physical education and sport by understanding the importance of physical development and maintaining its optimal level throughout life. The use of strength and other motor skills to more rationally manage the game activities of the individual, while improving the acquisition of more complex elements of technology. In everyday life in providing basic necessities.					
Class syllabus: Completing a positive lasting relationship to physical education and sport. Development of motor skills with a focus on the development of strength, with an emphasis on dynamic strength and endurance in strength. In collective sports games, improving individual game activities, practicing basic game combinations, playing with modified rules, tasked games. In individual sports disciplines, the development of motor abilities and skills necessary for the acquisition of more complex elements of lower difficulty techniques.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 5338					
A	B	C	D	E	FX
96,46	1,54	0,11	0,07	0,04	1,78

Lecturers: Mgr. Tomáš Kuchár, PhD., PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Jana Leginusová, PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký

Last change: 15.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-210/00		Course title: Physical Education and Sport (3)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: To practise game combinations, tactical - mechanical elements in basketball, volleyball, soccer, floorball, ice hockey, badminton, competition rules in the sports specialization.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 3123					
A	B	C	D	E	FX
98,46	0,45	0,1	0,03	0,0	0,96
Lecturers: Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký					
Last change: 16.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KTV/1-MXX-220/00		Course title: Physical Education and Sport (4)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4.					
Educational level: I.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: Preparation for sport championships of the Faculty in the chosen sport at modified rules. The selection of talented students into the teams of the University and Faculty leagues and other faculty sport events.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 2768					
A	B	C	D	E	FX
98,34	0,14	0,11	0,04	0,0	1,37
Lecturers: Mgr. Tomáš Kuchár, PhD., Mgr. Ladislav Mókus, Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký					
Last change: 15.03.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-310/00		Course title: Physical Education and Sport (5)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 5.					
Educational level: I.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: Preparation and participation of individuals and teams in the system of university sport competitions and sport events.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 2079					
A	B	C	D	E	FX
98,8	0,38	0,1	0,0	0,0	0,72
Lecturers: Mgr. Tomáš Kuchár, PhD., Mgr. Ladislav Mókus, Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký					
Last change: 15.03.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KTV/1-MXX-320/22		Course title: Physical Education and Sport (6)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 1					
Recommended semester: 6.					
Educational level: I.					
Prerequisites:					
Antirequisites: FMFI.KTV/1-MXX-320/00					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes:					
Class syllabus: Using the communication in the physical education and sport and organizing the sport championships to achieve expressive motion of the sport and health in a valuable orientation the students.					
Recommended literature:					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 119					
A	B	C	D	E	FX
95,8	0,84	0,84	0,0	0,0	2,52
Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek, Mgr. Tomáš Lovecký					
Last change: 15.03.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KFGGI/N-bZXX-012/22		Course title: Physical Geography				
Educational activities: Type of activities: lecture Number of hours: per week: 4 per level/semester: 52 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 194						
A	ABS	B	C	D	E	FX
0,52	0,0	3,61	12,37	21,13	25,26	37,11
Lecturers: RNDr. Ivan Ružek, PhD., doc. RNDr. Igor Matečný, PhD., prof. RNDr. Jozef Minár, CSc., RNDr. Marián Jenčo, PhD., doc. RNDr. Jozef Hók, CSc., RNDr. Norbert Polčák, PhD.						
Last change: 03.10.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-030/22		Course title: Power, Space and Conflict - Political Geography and Geopolitics Basics				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 3						
A	ABS	B	C	D	E	FX
0,0	0,0	66,67	33,33	0,0	0,0	0,0
Lecturers: prof. RNDr. Ján Buček, CSc., RNDr. Martin Plešivčák, PhD.						
Last change: 14.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-682/22	Course title: Preparation Tasks for Programming Competitions
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4., 6.	
Educational level: I.	
Prerequisites:	
Course requirements: The student can get 30% points for active participation in seminars, 20% for the design and preparation of methodological procedures for solving tasks and 50% for the design, formulation and solution of their own tasks. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - identifies and examines tasks from various IT competitions - according to the text of the task can specify the IT knowledge needed to solve it - is able to design their own assignments for the IT competition, while being able to take into account the age and knowledge of students that are necessary to solve it - processes the proposed tasks into a suitable form, e.g. website, forms - verifies the tasks in a small group of students and processes the results of their observations using qualitative research methods	
Class syllabus: - Overview of Slovak and foreign IT competitions - Classification of tasks according to the age of students - Tasks of the iBobor competition - Creating assignments that contain the same IT concepts but have different motivations - Characteristics of the task according to the age of students - Design of interactive tasks for competitions - Preparation of graded sequences of tasks on various IT topics - Designing websites, forms or other systems in which students can solve tasks - Design and implementation of qualitative research with prepared tasks - Evaluation and presentation of research	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment	

Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 23.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-681/22	Course title: Preparation and Publication of Pedagogical Research
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 4., 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Working on a project from the researcher's point of view processing and presentation of a publishable article (100%) Ongoing evaluation: Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 0/100	
Learning outcomes: The student: - is able to design research from the scientific or professional field of informatics according to his interest (formulate the goal, choose the research methods, research sample and data processing methods) - processes its research in a form suitable for publication - write the article to an appropriate extent - present the processed results of their own scientific work to a suitable professional audience	
Class syllabus: Solving a partial problem of a research problem. Involvement of students in scientific work under the guidance of pedagogical and scientific staff. Content, scope and processing of research scientific work into an article. Utilize and process literature and web resources. Public presentation of achieved results.	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment various electronic, magazine and book materials that relate to the issues addressed	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 2					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Lucia Budinská, PhD., Mgr. Karolína Miková, PhD.					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-140/22	Course title: Programming (1)
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 1.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous evaluation: the course is scored, the maximum number of points for the course is 150. The student gains continuous (weekly) points for solved problem tasks (70 pts), two interm tests (20 pts total), solved project (20 pts), active work during the semester (10 pts), and for solving assigned programming problems on the exam (30 pts). The student must earn a minimum of 58 points during the semester. Detailed grading requirements will be specified by the instructor at the beginning of the semester. Exam: In the form of solving a set of programming problems at the computer. A 92%, B 84%, C 76%, D 68%, E 60%. Scale of assessment (preliminary/final): 70/30The results of problems solved and active participation in seminars are counted towards the final maximum of 60 points a student can earn during the semester. An additional 10 points can be earned for completing a more complex research-oriented project (within a specified time, essentially before the final exam). The remaining 30 points is the maximum possible score for solving a set of problems on the exam. The time for solving it is usually 120 minutes, directly behind the computer.	
Learning outcomes: Develop a systematic understanding of the basics of programming in a programming language appropriate to the state of knowledge. Develop understanding of basic programming concepts and practices that is characterized by the ability to: · program the solution of a given problem, explain the function of the individual elements in it at the level of commands, control structures and the whole. Explain the strategy (algorithm) of the learner's solution, debug the solution, know how to modify it according to the requirements, · analyse the program code (created by themselves or by someone else), verify its behaviour, recognise the basic concepts and procedures in it (also comparing it with other programming environments that students have already encountered in primary and secondary school, including programmable robotic building blocks and toys), · explore a programming solution (created by someone else) using the decomposition method, to verify its behaviour, in various cases, · compare and explain the differences in various solutions of the same or similar problem.	
Class syllabus:	

the environment and options for direct control, the executor and its settings, the use and modification of settings,
 elements of the programming language, command with no input, command with one or more inputs, groups of commands and their execution and reexecution,
 creation of a user's command, its definition, use and modification, use of randomness, generation of random values and their use with various constraints,
 creating and using an expression as an input to a command,
 other control structures,
 conditions and visualizing their changing values, use of conditions in computation,
 working with multiple sprites, cooperation and communication between multiple sprites, programmed animations,
 requested input and working with input value; variable and working with it,
 creating and using composite data, working with a list, data visualisation

Recommended literature:

the lecturer's own electronic study materials published on the course website or in the Moodle system

Vickers, V.: How to Think Like a Programmer. Course Technology, 2008, 611 p.

Vaniček, J., Nagyová, I., Tomcsányiová, M.: Programování ve Scratch pro 2. stupeň základní školy. University of South Bohemia in České Budějovice, 2020.

Černochová, M., Vaňková, P., Štípek, J.: Programování ve Scratch pro pokročilé – projekty pro 2. stupeň základní školy. University of South Bohemia in České Budějovice, 2020. · Blaho, A., Salanci, L., Šimandl, V.: Programování v jazyce Python pro střední školy. University of South Bohemia in České Budějovice, 2020. · Guniš, J., Šnajder, L.: Programovanie v Pythone 1. Pavol Jozef Šafárik University in Košice, 2021, 170 p.

Languages necessary to complete the course:

Slovak, for the study of some materials secondary also English

Notes:

Past grade distribution

Total number of evaluated students: 94

A	B	C	D	E	FX
39,36	18,09	14,89	5,32	7,45	14,89

Lecturers: prof. RNDr. Ivan Kalaš, PhD.

Last change: 23.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-141/22	Course title: Programming (2)
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 2.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-140/22 - Programming (1) or FMFI.KDMFI/1-UIN-140/15 - Programming (1)	
Course requirements: Continuous assessment: assessment of homework(5%), short tests(40%), a project (10%) and one final test (15%) Examination: practical programming examination Indicative grading scale: A 88%, B 81%, C 74%, D 67%, E 60% Scale of assessment (preliminary/final): 70/30	
Learning outcomes: After completing the course, students will have mastered the basics of programming in an object-oriented programming language, will understand the syntax and semantics of simple program constructs, will be able to use the basic constructs and basic data structures of the programming language and also basic algorithms in creating programs to solve simple problems. They will be able to analyse programming code and detect errors in it.	
Class syllabus: Brief outline of the course: programming language environment, basic concepts and programming constructs (variable, command, program, assignment, conditional statements, loops, input, output) basic data types and data structures of the language (integer type, decimal type, logical type, string, ...) basic work with graphics, generation and use of random values functions without return value and with return value basic structured types and files events in the graphical area basic algorithms with numbers, on structured types, with graphical commands, for user interaction, etc. basics of object-oriented programming (class, object, encapsulation, inheritance)	
Recommended literature:	

the teacher's own electronic study materials published on the course website or in the Moodle system

Blaho, A., Salanci, L., Šimandl, V.: Programování v jazyce Python pro střední školy. Jihočeská univerzita v Českých Budějovicích, 2020.

Guniš, J., Šnajder, L.: Programovanie v Pythone 1. Univerzita Pavla Jozefa Šafárika v Košiciach, 2021, 170 p.

Kučera, P.: Programujeme v Pythone, e-kniha, 2017

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 62

A	B	C	D	E	FX
48,39	16,13	19,35	8,06	0,0	8,06

Lecturers: doc. RNDr. Zuzana Kubincová, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-241/15	Course title: Programming (3)
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 3.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-141/22 - Programming (2) or FMFI.KDMFI/1-UIN-141/15 - Programming (2)	
Course requirements: Continuous assessment: assessment of homework (5%), short tests (40%), a project (10%) and one final test (15%) Examination: practical programming examination Indicative grading scale: A 88%, B 81%, C 74%, D 67%, E 60% Scale of assessment (preliminary/final): 70/30	
Learning outcomes: After completing the course, students will be able to use more complex data types and program constructs of the object-oriented programming language and basic algorithms for working with them, they will better understand the principles of object-oriented programming, they will be able to program the solution of more complex problems and analyze more complex programs.	
Class syllabus: - other data types and program constructs - recursion - polymorphism - working with images and animation - linked structures - algorithms on more complex structures	
Recommended literature: • the teacher's own electronic study materials published on the course website or in the Moodle system • Pecinovský, R.: Začínáme programovat v jazyku Python. Grada, 2020, S. 272 • Guniš, J., Šnajder, L.: Programovanie v Pythone 1. Univerzita Pavla Jozefa Šafárika v Košiciach, 2021, S. 170 • Kučera, P.: Programujeme v Pythone, e-kniha, 2017	
Languages necessary to complete the course: Slovak	

Notes:					
Past grade distribution					
Total number of evaluated students: 60					
A	B	C	D	E	FX
50,0	18,33	11,67	6,67	6,67	6,67
Lecturers: doc. RNDr. Zuzana Kubincová, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-327/22	Course title: Programming Etudes (1)
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous assessment: The student can get 50% points for the elaboration of tasks at the seminar, another 50% for the design, implementation and presentation of the project. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - can assess whether the programming environment is suitable for a given level of education - uses more advanced techniques of the programming environment for students at the 2nd level of elementary school - Designs and programs projects and small educational applications - when solving problems, he can choose the right programming technique and implement it - can decide whether the programming technique is suitable for the given level of education	
Class syllabus: - programming techniques: mouse click on an object on the stage - data structure list and its use in the programming environment - programming techniques: the use of data list structure in solving tasks - programming techniques: moving the object using the keys - programming techniques enabling animations in the programming environment - programming techniques leading to an object-oriented approach - more advanced programming techniques leading to parallelism - project specification and design - project implementation, error tuning - project demonstration, evaluation and project discussion	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment	
Languages necessary to complete the course: Slovak	

Notes:					
Past grade distribution					
Total number of evaluated students: 51					
A	B	C	D	E	FX
78,43	7,84	3,92	3,92	3,92	1,96
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-325/22	Course title: Programming Etudes (2)
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Continuous assessment: 60% elaboration of assignments at the seminar, homework, 40% final project. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 60/40	
Learning outcomes: The student: - designs and implements several graded programming projects from the teacher's practice. - can find errors in the source code, e.g. its stepping, checklists. - is able to discuss several solutions to the same programming problem. - is able to implement some solutions.	
Class syllabus: - Programming techniques for solving problems using cycles, conditions and fields. - Creating graded projects to solve more complex tasks. - Use of recursion to implement different types of sorting, visualization. - Solving high school programming tasks from various competitions - project specification and design - project implementation, error tuning - project demonstration, evaluation and project discussion	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 46					
A	B	C	D	E	FX
80,43	6,52	2,17	6,52	0,0	4,35
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD., PaedDr. Andrea Hrušecká, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-351/17	Course title: Programming in JavaScript
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I., II.	
Prerequisites:	
Course requirements: The student can get 50% points for studying and applying the features of the JavaScript programming language. He can get another 50% of points for programming the assigned tasks during the seminars. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student: - knows the commands of JavaScript, a language that is suitable for creating applications that work in a web browser - Understands how to embed JavaScript code in an html page - recognizes and explains the function of individual elements that are part of the html code and whose actions are linked to JavaScript - is able to write and debug its problem solution in JavaScript language	
Class syllabus: Course contents: Basic structures of JavaScript: variables, Boolean expressions JS and html collaboration JS and functions Design for repetition Branching in JS One-dimensional arrays, array rendering Two-dimensional arrays, Life game Mouse events - click Mouse events - dragging Special event customization and syntax for mobile devices Working with images in JS	
Recommended literature:	

Tomcsányiová, M .: JavaScript: from Introduction to Games, internal material of the Department of Didactics of the IFI, FMFI Comenius University in Bratislava, 2021
JavaScript website
own electronic texts published on the website, resp. in the Moodle environment

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 29

A	B	C	D	E	FX
55,17	10,34	13,79	10,34	3,45	6,9

Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.

Last change: 23.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-349/22	Course title: Programming of Application for WEB
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I., II.	
Prerequisites: FMFI.KDMFI/1-UIN-355/22 - Introduction to Web Documents Formation or FMFI.KDMFI/1-UIN-355/10 - Introduction to Web Documents Formation	
Course requirements: Continuous assessment: practical tasks (100%) Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: After completing the course, students will be able to create a simple web application on the server side with the possibility of personalized access to individual parts of the application. The data will be stored in a database.	
Class syllabus: - Server-side web applications - Introduction to PHP - Basic constructions of language (1) - variables, constants, strings, operators, conditions, cycles - Basic language constructions (2) - working with date and time, fields, functions for working with fields and strings - Reuse code - Form processing, processing and treatment of inputs - SESSION, COOKIES - Introduction to working with a database - Basic queries to the database - SELECT, INSERT, UPDATE, DELETE - Linking PHP to a database - Working with multiple tables at once	
Recommended literature: PHP and MySQL: Web Application Development / Luke Welling, Laura Thomson; Translation by Jan Kuklínek. Prague: SoftPress, 2005 We program PHP professionally / Jesus Castagnetto ... [et al.]; Translation by Ludvík Roubíček. Brno: Computer Press, 2004 Own electronic texts of the subject, published via the subject's website, resp. Moodle system.	

Languages necessary to complete the course: Slovak					
Notes:					
Past grade distribution Total number of evaluated students: 26					
A	B	C	D	E	FX
30,77	15,38	26,92	19,23	3,85	3,85
Lecturers: PaedDr. Roman Hrušecký, PhD., doc. RNDr. Ľudmila Jašková, PhD.					
Last change: 23.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-250/00	Course title: Propedeutics of Informatics Education (1)
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 3.	
Educational level: I., II., N	
Prerequisites:	
Course requirements: active participation in seminars and at least 50% of the semester Continuous assessment: active participation in seminars (50%) and homework (30%) Final test (20%) Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 80/20	
Learning outcomes: The student: - knows the content and scope of the subject of informatics determined by the State Educational Program for various types and levels of schools - will be able to design and evaluate curricula for the subject Informatics - is able to identify the basic steps in creating the educational content of the lesson - can interpret and evaluate available methodological materials - acquires basic pedagogical habits	
Class syllabus: - Computer science teacher - Informatics in other countries - Curriculum analysis using Brunner's concept - Phases of teaching in computer science teaching - Educational goals of the subject of informatics at the 2nd level of elementary school and high school - Educational goals of individual topics of informatics - School curricula and curricula - Project teaching - Work with methodical materials - Planning and implementation of evaluation in the subject of informatics	
Recommended literature: own electronic texts published	

From educational program to teaching lesson / Marvin Pasch ... [et al.]; translated by Milan Koldinský. Prague: Portal, 2005
Školní didaktika / Zdeněk Kalhous, Otto Obst ... [et al.]. Prague: Portal, 2002
Transformations of the school in the digital age / Ivan Kalaš and team. Bratislava: Slovenské pedagogické nakladateľstvo - Mladé letá, 2013

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 188

A	B	C	D	E	FX
77,66	7,45	6,38	3,19	0,53	4,79

Lecturers: Mgr. Karolína Miková, PhD., Mgr. Jakub Krcho

Last change: 21.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-251/00	Course title: Propedeutics of Informatics Education (2)
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I., II., N	
Prerequisites: FMFI.KDMFI/1-UIN-250/00 - Propedeutics of Informatics Education (1)	
Course requirements: Interim evaluation: active participation in seminars (presentation of preparation (50%) and feedback (50%)) Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student will have experience in using theoretical knowledge in creating preparations for the lesson. He will be able to critically evaluate the design and implementation of the lesson and express his opinion in the discussion. The student will have built some basic pedagogical habits.	
Class syllabus: Course contents: Students will create preparations for computer science lessons for the following topics: Anti-virus and anti-spyware programs Internet security and risks Working with tables Working with presentations Working with graphics Working with sound Working with text Working with a website Encryption Coding Working with multimedia Communication tools Web search In the form of a simulation, the lessons will test the preparations made and then discuss them.	

Recommended literature:

From educational program to teaching lesson / Marvin Pasch ... [et al.]; translated by Milan Koldinský. Prague: Portal, 2005

Informatics for secondary schools: učebnica / Ivan Kalaš ... [et al.]. Bratislava: Slovenské pedagogické nakladateľstvo, 2005

Transformations of the school in the digital age / Ivan Kalaš and team. Bratislava: Slovenské pedagogické nakladateľstvo - Mladé letá, 2013

Work with graphics: thematic notebook for the 1st year of grammar schools, for the fifth of eight-year grammar schools / Ľubomír Salanci. Bratislava: Slovenské pedagogické nakladateľstvo, 2000

own electronic texts published on the website, resp. in the Moodle environment

Languages necessary to complete the course:

Slovak

Notes:**Past grade distribution**

Total number of evaluated students: 152

A	B	C	D	E	FX
76,32	7,24	3,95	2,63	3,29	6,58

Lecturers: Mgr. Karolína Miková, PhD., Mgr. Jakub Krcho

Last change: 21.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bZRG-031/22		Course title: Protection of the World Natural and Cultural Heritage				
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 4.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 15						
A	ABS	B	C	D	E	FX
0,0	0,0	46,67	46,67	0,0	0,0	6,67
Lecturers: RNDr. Katarína Danielová, PhD.						
Last change: 11.10.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-PriF.KDPP/1- UXX-141/22	Course title: Psychology for Teachers (1)
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 1.	
Educational level: I., II., N	
Prerequisites:	
Antirequisites: FMFI-PriF.KDPP/1-UXX-131/10	
Course requirements: The course is completed by an exam, the evaluation ratio is 50% of the continuous evaluation + 50% of the final evaluation. Interim evaluation includes a midterm test (30% of evaluation) and a seminar paper (20% of evaluation). The final evaluation includes the final exam (50% of the evaluation). To successfully complete the course, it is necessary to obtain at least 60% of points. The rating is given on a scale: A (100-92%, excellent - excellent results), B (91-84%, very good - above average standard), C (83-76%, good - normal reliable work), D (75-68%, satisfactory - acceptable results), E (67-60%, sufficient - results meet minimum criteria), Fx (59-0%, insufficient - additional work required) Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The aim of the course Psychology for Teachers 1 is to make basic information about the general laws of human experience and behavior so that they can provide a platform for understanding the functioning of the human psyche and synthesize psychological knowledge, facts, theories, research approaches to a comprehensive view of the individual's psyche for creative professional application. in pedagogical practice. After completing the course, the student is able to orientate in the terminology of general and developmental psychology, can apply the knowledge of general and developmental psychology in the educational context, knows the laws of psychology, especially with regard to the needs of lower and upper secondary education, knows the laws of cognitive processes and their application in the educational process.	
Class syllabus:	

1. Introduction to psychology: psychology as a science, the subject of psychological research, approaches in psychology, the importance and use of psychology in the school environment and in the work of teachers.
2. Research and research methods in psychology: the importance of scientific knowledge, features of scientific work and methodology of psychological research.
3. Research and definition of mental processes. Mental and cognitive processes. Cognitive processes in the developmental and educational context in the school environment
 - a. perception, current research and its applications in the school environment. Interpretation and distortions in connection with the perception of the teacher.
 - b. Attention processes. Attention concentration, switching, current approaches. Multitasking and attention in the context of school performance and success.
 - c. Memory processes. Basic models of memory and their relation to education. Elaboration as a tool for effective remembering. Interference. Memory as an ability.
4. Representation and organization of knowledge, thinking: characteristics of thinking and its types. Terms: their connection and learning. Judgment and decision making. Fixed and growth-oriented mind settings. Problem solving: types of problems, problem solving strategies.
5. Intelligence: theory of intelligence, measurement of intelligence. Stability and development of intellectual abilities in relation to education. Intellectual talent.
6. Introduction to developmental psychology. Basic concepts, subject of research and methods of developmental psychology.
7. Mental development in general - determinants of development, character and types of developmental changes, characteristics of development from a psychological point of view, critical periods in development.
8. Selected developmental theories I.
9. Selected developmental theories II.
10. Periodization of development and characteristics of individual development periods I. with emphasis on the period of school age
11. Periodization of development and characteristics of individual development periods II. with an emphasis on adolescence
12. Basics of developmental psychopathology.

Recommended literature:

ATKINSON, R.C. et al. (2003) Psychology. Prague: Portal.
 FONTANA, D. (1997) Psychology in school practice. Prague: Protal.
 HORT, V. et al. (2008) Child and adolescent psychiatry. Prague: Portal
 HOLEČEK, V. (2014) Psychology in teaching practice. Prague: City.
 LANGMEIER, J.-KREJČÍŘOVÁ, D. (2006). Developmental Psychology. City.
 STERNBERG, R., J. (2009). Cognitive psychology. Portal.
 VÁGNEROVÁ, M. (2000) Developmental psychology. Childhood, adulthood, old age. Prague: Portal.
 VESELSKÝ, M. (2001) Educational Psychology 1. Theory and practice. Bratislava: Comenius University.
 VESELSKÝ, M. (2005) Educational Psychology 2. Theory and practice. Bratislava: Comenius University.

Languages necessary to complete the course:

Slovak and Czech language, English language (text comprehension)

Notes:

Past grade distribution					
Total number of evaluated students: 633					
A	B	C	D	E	FX
21,17	15,48	23,7	18,33	16,9	4,42
Lecturers: RNDr. Jana Ciceková, PhD., PhDr. ThLic. Peter Ikhardt, PhD.					
Last change: 16.09.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-PriF.KDDP/1- UXX-142/22	Course title: Psychology for Teachers (2)
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 2.	
Educational level: I., II., N	
Prerequisites: FMFI-PriF.KDPP/1-UXX-141/22 - Psychology for Teachers (1)	
Antirequisites: FMFI-PriF.KDPP/1-UXX-135/10	
Course requirements: The course is completed by an exam, the evaluation ratio is 50% of the continuous evaluation + 50% of the final evaluation. Continuous assessment includes active participation in seminars (at least 80% of the teaching part), presentation of the selected topic (20%) and elaboration of an essay (30%). Completion of these assignments is a condition of admission to the final exam. The final evaluation includes the final exam (50% of the evaluation). To successfully complete the course, it is necessary to obtain at least 60% of points. The rating is given on a scale: A (100-92%, excellent - excellent results), B (91-84%, very good - above average standard), C (83-76%, good - normal reliable work), D (75-68%, satisfactory - acceptable results), E (68-60%, sufficient - results meet minimum criteria), Fx (59-0%, insufficient - additional work required) Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The aim of the course Psychology for Teachers 2 is to make available the knowledge of personality psychology and educational psychology so that they can form the basis for understanding the functioning of the human psyche and synthesize psychological knowledge and theories into a comprehensive view of the individual's psyche for creative professional application in pedagogical practice. The aim of the course is also to increase the sensitivity of students to interindividual diversity in the school environment, to develop their psychological literacy and ability to apply current knowledge of theoretical and applied psychological disciplines in educational practice. After completing the course, the student is able to orientate in the terminology of personality psychology and educational psychology and can use the knowledge from these disciplines in designing an educational unit, knows the psychological context of the educational process.	

Class syllabus:

1. Personality psychology and interindividual differences. Understanding personality in psychology. Application of personality psychology in pedagogical practice.
2. Biological and social bases of personality. Personality structure - temperament, character, abilities, motivation.
3. Personality typologies and their importance in educational practice. Personality of the teacher.
4. Psychology of learning - types, laws and conditions of learning. Selected approaches and theories of learning.
5. Psychological issues of motivation in the field of education. Resources and factors influencing motivation. Types of motivation. Selected theories of motivation. Performance motivation, goals and self-regulation.
6. Creativity in education - conditions and models of creative learning. Increasing creativity in students.
7. Pupils' performance in the educational process. School success vs. failure, failure of students. Psychological testing of students. Test and pre-test conditions. Evaluation and self-evaluation.
8. Psychosocial climate and class / school atmosphere as a factor of optimal education. Classroom communication. Class engagement and teacher influence. School classroom management and administration.
9. School class as a social group, the position of the individual - the student in it.
10. Learning disabilities. Pupils' problems in survival and behavior. Emotionality, self-image and aggression in the school environment. Psychological aspects of school inclusion. The role of the school psychologist and his help to the school.
11. Positive psychology in the school environment. Empathy and prosocial behavior in the classroom. Emotions in education and their importance. Active participation, interest, commitment, curiosity.
12. Personality in difficult life situations. Stress management. Load resistance. Mental health and psychohygiene at school. Prevention of bullying, mobbing and burnout.

Recommended literature:

ATKINSON, R.C. et al. (2003) Psychology. Prague: Portal.
ČÁP, P. & MAREŠ, J. (2001) Psychology for Teachers. Prague: Portal.
FONTANA, D. (1997) Psychology in school practice. Prague: Protal.
HOLEČEK, V. (2014) Psychology in teaching practice. Prague: City.
VÁGNEROVÁ, M. (2005). School counseling psychology for teachers. Prague: Karolinum
VÁGNEROVÁ, M. (2010). Personality psychology. Prague: Karolinum
VENDEL, S. (2007). Educational psychology. Bratislava: Epos
VESELSKÝ, M. (2001) Educational Psychology 1. Theory and practice. Bratislava: Comenius University.
VESELSKÝ, M. (2005) Educational Psychology 2. Theory and practice. Bratislava: Comenius University.

Languages necessary to complete the course:

Slovak and Czech language, English language (text comprehension)

Notes:**Past grade distribution**

Total number of evaluated students: 467

A	B	C	D	E	FX
27,19	19,91	20,99	19,49	9,21	3,21

Lecturers: RNDr. Jana Ciceková, PhD., PhDr. ThLic. Peter Ikhardt, PhD.
Last change: 16.09.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bZRG-013/22		Course title: Regional Geography Excursion (Foreign Countries)				
Educational activities: Type of activities: excursion Number of hours: per week: per level/semester: 10d Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 21						
A	ABS	B	C	D	E	FX
90,48	0,0	0,0	0,0	0,0	0,0	9,52
Lecturers: doc. RNDr. Daniel Gurňák, PhD., Mgr. Gabriel Zubriczký, PhD., doc. RNDr. František Križan, PhD., prof. RNDr. Ladislav Tolmáči, PhD., Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., RNDr. Mgr. Anna Tolmáči, PhD.						
Last change: 11.10.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KRGRR/N-bUGE-033/22			Course title: Regions of Eurasia - Selected Issues			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 4 / 2 per level/semester: 52 / 26 Form of the course: on-site learning						
Number of credits: 6						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 85						
A	ABS	B	C	D	E	FX
4,71	0,0	25,88	36,47	17,65	5,88	9,41
Lecturers: Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD.						
Last change: 23.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-354/22	Course title: Robotic Kits as Pedagogical Tools
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Evaluation during semester: active participation, work on project during lessons (100%) Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: The student: - try out the implementation of activities for primary school students - get acquainted with several robotic toys - discuss the possible use of robotic toys in various subjects at school; - get acquainted with project teaching and constructionist form of teaching and will be able to apply the basic principles of these forms in educational activities with robotic toys - will independently design, solve and present robotic projects	
Class syllabus: - simulation of an inexperienced teacher - acquaintance with new technology - analysis of the control tool - work with methodical materials - creative activities with a selected robotic toy - didactic view of robotic toys - presenting findings and learning feedback	
Recommended literature: - Further education of primary and secondary school teachers in the subject of informatics: Didactics of robotic building blocks: 1.2 Education of unqualified informatics teachers at the 2nd level of primary school and at secondary school / Martina Kabátová, ... [et al.]. Bratislava: State Pedagogical Institute, 2010 - Transformations of the school in the digital age / Ivan Kalaš a kolektív. Bratislava: Slovenské pedagogické nakladateľstvo - Mladé letá, 2013 - Getting Started with LEGO Robotics: A Guide for K-12 Educators / Mark gura. International Society for Technology in Education.	

Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 188					
A	B	C	D	E	FX
93,62	3,19	1,06	0,0	0,0	2,13
Lecturers: Mgr. Karolína Miková, PhD., Mgr. Jakub Krcho					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-161/00		Course title: Russian Language (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Basic communication in Russian, developing other Russian language skills - listening comprehension, reading and writing.					
Class syllabus: To master the fundamentals of general Russian. The language level is A1. Learning the Cyrillic (Russian) alphabet, gaining basic language competence, building up skills and confidence in dealing with unfamiliar authentic and semi-authentic texts. The subject provides a course in Russian language for beginners.					
Recommended literature: The textbook: : Точка Ру А1 (Ольга Долматова, Екатерина Новачац), pracovné karty Падежи 1 (Л.С. Безкоровайная, В.Е. Штыленко).					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 729					
A	B	C	D	E	FX
58,16	16,46	10,7	4,25	1,78	8,64
Lecturers: Viktoria Mirsalova					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-162/00		Course title: Russian Language (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Basic communication in Russian, developing other Russian language skills - listening comprehension, reading and writing.					
Class syllabus: To master the fundamentals of general Russian. Learning the Cyrillic (Russian) alphabet, gaining basic language competence, building up skills and confidence in dealing with unfamiliar authentic and semi-authentic texts. The subject continues the program of Russian language (1) and provides a course of Russian for beginners.					
Recommended literature: Textbook: Точка Ру А1 (Ольга Долматова, Екатерина Новачац), pracovné karty Падежи 1 (Л.С. Безкоровайная, В.Е. Штыленко).					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 423					
A	B	C	D	E	FX
65,01	15,6	8,98	3,78	0,95	5,67
Lecturers: Viktoria Mirsalova					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-261/00		Course title: Russian Language (3)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Basic communication in Russian, developing other Russian language skills - listening comprehension, reading and writing.					
Class syllabus: Learning the handwritten Russian (Russian Cursive Cyrillic), developing further language skills, gaining knowledge of Russian culture, history and way of life, pre-intermediate to intermediate grammar and vocabulary. The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.					
Recommended literature: Точка Ру А2 (Ольга Долматова, Екатерина Новачац) а Short Stories in Russian (Olly Richards, Alex Rowlings)					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 207					
A	B	C	D	E	FX
70,05	17,87	8,7	2,42	0,0	0,97
Lecturers: Viktoria Mirsalova					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-262/00		Course title: Russian Language (4)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4.					
Educational level: I., II.					
Prerequisites:					
Course requirements: Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Learning the handwritten Russian (Russian Cursive Cyrillic), developing further language skills, gaining knowledge of Russian culture, history and way of life, pre-intermediate to intermediate grammar and vocabulary.					
Class syllabus: Learning the handwritten Russian (Russian Cursive Cyrillic), developing further language skills, gaining knowledge of Russian culture, history and way of life, pre-intermediate to intermediate grammar and vocabulary. The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.					
Recommended literature: Точка Ру А2 (Ольга Долматова, Екатерина Новачац) а Short Stories in Russian (Olly Richards, Alex Rowlings)					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 148					
A	B	C	D	E	FX
75,68	13,51	6,76	2,7	0,68	0,68
Lecturers: Viktoria Mirsalova					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-331/22	Course title: School Management
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 2 per level/semester: 13 / 26 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 6.	
Educational level: I., II., N	
Prerequisites:	
Antirequisites: FMFI-Prif.KDPP/1-UXX-331/15	
Course requirements: The condition for successful completion of the course is to obtain at least 60% of the maximum possible evaluation of the course. The work during the semester on partial tasks from different areas and levels of school management will be evaluated: - reading and presentation of recommended literature (10%) - active participation in exercises (35%) - attendance at lectures and feedback on lectures (20%) - report+presentation in pairs (15%) - final written exam (20%) The rating is given on a scale: A: 93-100%, excellent - excellent results, B: 85-92%, very good - above average standard, C: 76-84%, good - normal reliable work, D: 68-75%, satisfactory - acceptable results, E: 60-67%, sufficient - the results meet the minimum criteria, Fx: 0-59%, insufficient - additional work required Scale of assessment (preliminary/final): 80 / 20	
Learning outcomes: Knowledge of the school system in the Slovak Republic in comparison with successful education systems in other countries, understanding of the management system and organization of education in the Slovak Republic at all levels, orientation in school and labor legislation, pedagogical documents, electronic systems used in primary and secondary schools (eg Edupage). Ability to apply knowledge of other disciplines in the field of school management.	
Class syllabus: Basic terminology of school management. Education system in the Slovak Republic and education management system. School management models. Personality of a leading pedagogical employee	

- legal and personal requirements, leadership styles. Hierarchy of education workers. Control activities in schools, apprenticeship. School and labor legislation (legal regulations governing the activities of primary and secondary schools - laws, decrees, work regulations, pedagogical-organizational instructions, pedagogical documentation), time management. Edupage. Teacher professional development. Class teacher.

Recommended literature:

HALÁKOVÁ, Z., NAGYOVÁ, S., NAGY, T. 2019. School management for students of science subjects with practical examples. Bratislava: UK.
 OBDRŽÁLEK, Z. 2002. School and its management. Bratislava: UK.
 OBDRŽÁLEK, Z., HORVÁTHOVÁ, K. et al. 2004. Organization and management of education. Terminological and interpretative dictionary. Bratislava: SPN.
 EGER, L. 2006. School management. Pilsen: Fraus.
 PISOŇOVÁ, M. 2012. Personality development of the school principal - starting points and determinants.
 Current legal regulations governing the activities of primary and secondary schools (laws, decrees, internal regulations, pedagogical-organizational instructions).
 Pedagogical documentation
 WONG, H. K., WONG, R.T. The first days of school: How to be an effective teacher. Mountain View, CA: Harry K. Wong Publications, 2005.
 LAU, W. Teaching Computing in Secondary Schools: A Practical Handbook. Routledge, 2017.
 LEMOV, D. Teach like a champion 2.0: 62 techniques that put students on the path to college. John Wiley & Sons, 2015.
 CANGELOSI, J. S. Classroom Management Strategies: How to Gain and Maintain Pupils' Cooperation in Teaching. Portal, 1996.
 Current Internet resources and journal sources (Education Technology, School Management in Practice, Quality and more).

Languages necessary to complete the course:

Communication - Slovak
 Study of literature - Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 119

A	B	C	D	E	FX
51,26	14,29	24,37	4,2	0,84	5,04

Lecturers: Mgr. Karolína Miková, PhD., PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAI/2-IKV a-192/19	Course title: Science, Technology and Humanity: Opportunities and Risks
Educational activities: Type of activities: seminar Number of hours: per week: 3 per level/semester: 39 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 2.	
Educational level: I., II.	
Prerequisites:	
Course requirements: Semestral evaluation: active participation Final evaluation: essay Weight of the final evaluation: 60% To achieve an A, 90% is needed, for B at least 80%, for C 70%, for D, 60% and for an E, at least 50% of overall assessment.	
Learning outcomes: The students will gain awareness of the contemporary and potential future challenges posed by scientific and technological innovations and their impact on human behaviour, culture and society.	
Class syllabus: Big data: privacy, politics and power, Internet of things, its usefulness and threats, Assistant AI and its place in future society, Job market and inequality, Enhancements and human rights and the right to change self and others, Initiatives for responsible research, Artificial minds, Hybridization between species and between AI and organic minds, Future of minds and trans-humanism, Artificial emotional intelligence, An after human era.	
Recommended literature: - S. Russell: Human compatible. Artificial intelligence and the problem of control. Viking, 2019. - J. Havens: Heartificial intelligence. Embracing our humanity to maximize machines. Penguin, 2016. - P. Boddington: Towards a code of ethics for artificial intelligence. Springer, 2017. - M. Shanahan: The technological singularity. MIT Press, 2015.	

- C. MacKellar, C.: Cyborg Mind: What Brain–Computer and Mind–Cyberspace Interfaces Mean for Cyberneuroethics. Berghahn Books, 2019. - G. Bel, J. Gemmell: Total Recall, How the e-Memory Revolution will change everything. Dutton, 2009. - S. Zuboff: The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power. PublicAffairs, 2019. - C. O'Neil: Weapons of Math Destruction: How Big Data Increases Inequality and Threatens Democracy. Crown Publishers, 2016. - M. Tegmark: Life 3.0. Allen Lane, 2017.					
Languages necessary to complete the course: English					
Notes:					
Past grade distribution Total number of evaluated students: 88					
A	B	C	D	E	FX
46,59	13,64	13,64	9,09	4,55	12,5
Lecturers: doc. RNDr. Martin Takáč, PhD., PhDr. Ing. Tomáš Gál, PhD.					
Last change: 28.02.2020					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-036/22			Course title: Selected Chapters from Social and Cultural Anthropology			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 1 / 1 per level/semester: 13 / 13 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 5.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 8						
A	ABS	B	C	D	E	FX
37,5	0,0	25,0	12,5	0,0	12,5	12,5
Lecturers: Mgr. Juraj Majo, PhD.						
Last change: 04.11.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-020/22			Course title: Selected Chapters from Sociology for Geographers			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 20						
A	ABS	B	C	D	E	FX
30,0	0,0	15,0	25,0	15,0	5,0	10,0
Lecturers: Mgr. Alena Rochovská, PhD.						
Last change: 09.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-171/20		Course title: Slovak Language for Foreign Students (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebežneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: This course is aimed for foreign students to learn the fundamentals of the Slovak language with the focus on basic communication as well as all other language skills- listening comprehension,reading and writing.					
Class syllabus: The syllabus is targeted at the comprehension of the basics of the Slovak language for the absolute beginners (A1).					
Recommended literature: Križom- Krážom Slovenčina 1, additional material to further support the covered topics.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 60					
A	B	C	D	E	FX
48,33	11,67	0,0	0,0	0,0	40,0
Lecturers: Mgr. Aneta Barnes					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-172/20		Course title: Slovak Language for Foreign Students (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebežneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: This course is aimed for foreign students to learn the fundamentals of the Slovak language with the focus on basic communication as well as all other language skills- listening comprehension,reading and writing.					
Class syllabus: The syllabus is targeted at the comprehension of the basics of the Slovak language for the absolute beginners (A1) and this course is a follow up course to the Slovak language course 1.					
Recommended literature: Križom- Krážom Slovenčina 1, additional material to further support the covered topics					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 48					
A	B	C	D	E	FX
83,33	2,08	2,08	0,0	0,0	12,5
Lecturers: Mgr. Aneta Barnes					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-271/20		Course title: Slovak Language for Foreign Students (3)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: This course is aimed for foreign students to better comprehend all the language skills important to enable correct usage of the Slovak language – listening comprehension, reading, writing and speaking.					
Class syllabus: The syllabus is targeted at the comprehension of all the language skills of the Slovak language , and it is a follow up course to the Slovak language course 2.					
Recommended literature: Križom-Krážom Slovenčina 2, additional material to further support the covered topics.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 28					
A	B	C	D	E	FX
60,71	21,43	0,0	3,57	0,0	14,29
Lecturers: Mgr. Aneta Barnes					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-272/20		Course title: Slovak Language for Foreign Students (4)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 4.					
Educational level: I., II.					
Prerequisites:					
Course requirements: tests Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebežneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/ Scale of assessment (preliminary/final): 100/0					
Learning outcomes: This course is aimed for foreign students to better comprehend all the language skills important to enable correct usage of the Slovak language – listening comprehension, reading, writing and speaking.					
Class syllabus: The syllabus is targeted at the comprehension of all the language skills of the Slovak language , and it is a follow up course to the Slovak language course 3.					
Recommended literature: Križom-Krážom Slovenčina 2, additional material to further support the covered topics.					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 14					
A	B	C	D	E	FX
92,86	7,14	0,0	0,0	0,0	0,0
Lecturers: Mgr. Aneta Barnes					
Last change: 21.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KDMFI/1-UXX-332/22		Course title: Social Aspects of Informatics			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: I.					
Prerequisites:					
Antirequisites: FMFI.KDMFI/1-INF-175/00					
Course requirements: Continuous evaluation: two seminar works, presentation resp. third seminar work In the case of three seminar papers, the evaluation of each thesis will be 1/3 points, in the case of 2 seminar papers and the presentation, the evaluation of the seminar paper will be 25% points and the presentation 50% points. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0					
Learning outcomes: Students lead science as information technology changes society (in historical context)					
Class syllabus: New ICT technologies are evolving very fast. But they are constantly entering our daily lives. We note what changes, what positive, but also what risks ICT brings in various areas: education, health, arts, business and finance, industry and others. We will pay special attention to the issue of copyright and its infringement and cybercrime. Also what risks they bring.					
Recommended literature: Abelson, Ledeen, Lewis, BlownTo Bits, Addison Wesley 2008, www.bitsbook.com information on the subject's website					
Languages necessary to complete the course: Slovak, English					
Notes:					
Past grade distribution Total number of evaluated students: 156					
A	B	C	D	E	FX
96,15	1,92	0,0	1,28	0,64	0,0

Lecturers: RNDr. Michal Winczer, PhD.
Last change: 22.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-056/22		Course title: Society, Economy, Space				
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 3 / 1 per level/semester: 39 / 13 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 2.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 72						
A	ABS	B	C	D	E	FX
9,72	0,0	29,17	20,83	18,06	16,67	5,56
Lecturers: prof. RNDr. Ján Buček, CSc., Mgr. Ingrid Bučeková, PhD., doc. Mgr. Marcel Horňák, PhD., RNDr. Michal Klobučník, PhD., Mgr. Lucia Vršanská, PhD.						
Last change: 14.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UIN-673/22	Course title: Software in Education
Educational activities: Type of activities: course Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I., II., N	
Prerequisites:	
Course requirements: Continuous assessment: The student can get 40% points for a review of software for teaching computer science. He will get another 60% of points for the design, specification and implementation of his own educational software. Indicative assessment scale: A 90%, B 80%, C 70%, D 60%, E 50% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student is able to assess the suitability of specific educational software for teaching computer science at elementary schools, high schools, respectively. VŠ. He is able to classify educational software. Can give examples of software that is suitable for education for a specific age group of students. Review educational software. Can apply the findings to the design of educational software. Creates a software proposal for teaching computer science for elementary or high school students.	
Class syllabus: The importance of digital technologies in the cognitive process, in teaching and learning. Definition and classification of software used in education. Criteria for evaluating educational software from different perspectives. Educational applications for teaching computer science to primary and secondary school students. Information systems used for education. Software for education and developmental stages of knowledge. GUI design for software to be used in education. Action research - students and teachers as co-authors of software design for education. Principles of creating software for education. Educational software for students with special needs.	
Recommended literature: own electronic texts published on the website, resp. in the Moodle environment	
Languages necessary to complete the course: Slovak	

Notes:					
Past grade distribution					
Total number of evaluated students: 0					
A	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Monika Tomcsányiová, PhD.					
Last change: 20.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-115/15		Course title: Sports in Nature (1)			
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: 1.					
Educational level: I.					
Prerequisites:					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50%. The condition for the award of 1 or 2 credits is the completion of a multi-day course in its full scope, or the completion of one-day courses in the scope of 4 days. Candidates can apply to the leaders of individual courses. From the presented offer of courses, you can choose the one that suits your interests, abilities and deadlines.					
Learning outcomes: Acquisition and development of basic motor skills and abilities in selected sports: skiing and snowboarding. Mastering the correct technique of performing individual movements, which are necessary for skiing and snowboarding.					
Class syllabus: The student can sign up for the outdoor sports courses offered by the department: skiing, snowboarding and other hobby sports. The lessons in the courses are focused on the development of basic and special movement skills and, mastering the techniques needed for the sports.					
Recommended literature:					
Languages necessary to complete the course: Slovak					
Notes: KTVŠ does not rent ski equipment.					
Past grade distribution Total number of evaluated students: 286					
A	B	C	D	E	FX
99,3	0,35	0,35	0,0	0,0	0,0
Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Tomáš Lovecký					

Last change: 16.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFL.KTV/1-MXX-215/15		Course title: Sports in Nature (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: 2.					
Educational level: I.					
Prerequisites:					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50% The condition for the award of 1 or 2 credits is the completion of a multi-day course in its full scope, or the completion of one-day courses in the scope of 4 days. Candidates can apply to the leaders of individual courses. From the presented offer of courses, you can choose the one that suits your interests, abilities and deadlines.					
Learning outcomes: Creating a positive and lasting relationship with physical activity. Acquisition and mastery of basic motor skills and abilities in outdoor sports: windsurfing, beach volleyball, water tourism - river rafting, hiking and other sports according to interest. Training and improving the technique needed for the sports.					
Class syllabus: The student can sign up for the outdoor sports courses offered by the department: water tourism - river rafting, windsurfing, beach volleyball, hiking and other hobby sports. The lessons in the courses are focused on the development of basic and special movement skills and, mastering the techniques needed for the sports.					
Recommended literature:					
Languages necessary to complete the course: Slovak					
Notes: KTVŠ will provide sports equipment.					
Past grade distribution Total number of evaluated students: 240					
A	B	C	D	E	FX
94,58	0,0	0,0	0,0	0,0	5,42

Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Tomáš Lovecký
Last change: 16.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KTV/1-MXX-216/18		Course title: Sports in Nature (3)			
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: 3.					
Educational level: I.					
Prerequisites:					
Antirequisites: FMFI.KTV/1-UXX-151/22					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50% The condition for the award of 1 or 2 credits is the completion of a multi-day course in its full scope, or the completion of one-day courses in the scope of 4 days. Candidates can apply to the leaders of individual courses. From the presented offer of courses, you can choose the one that suits your interests, abilities and deadlines.					
Learning outcomes: Acquisition and development of basic motor skills and abilities in selected sports: skiing and snowboarding. Mastering the correct technique of performing individual movements, which are necessary for skiing and snowboarding.					
Class syllabus: The student can sign up for the outdoor sports courses offered by the department: skiing, snowboarding. The lessons in the courses are focused on the development of basic and special movement skills and, mastering the techniques needed for the sports.					
Recommended literature:					
Languages necessary to complete the course: Slovak					
Notes: KTVŠ does not rent ski equipment.					
Past grade distribution Total number of evaluated students: 39					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Tomáš Lovecký
Last change: 16.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KTV/1-MXX-217/18		Course title: Sports in Nature (4)			
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: 4.					
Educational level: I.					
Prerequisites:					
Antirequisites: FMFI.KTV/1-UXX-152/22					
Course requirements: Grades: A 90%, B 80%, C 70%, D 60%, E 50% The condition for the award of 1 or 2 credits is the completion of a multi-day course in its full scope, or the completion of one-day courses in the scope of 4 days. Candidates can apply to the leaders of individual courses. From the presented offer of courses, you can choose the one that suits your interests, abilities and deadlines.					
Learning outcomes: Creating a positive and lasting relationship with physical activity. Acquisition and mastery of basic motor skills and abilities in outdoor sports: windsurfing, beach volleyball, water tourism - river rafting, hiking and other sports according to interest. Training and improving the technique needed for the sports.					
Class syllabus: The student can sign up for the outdoor sports courses offered by the department: water tourism - river rafting, windsurfing, beach volleyball, hiking and other hobby sports. The lessons in the courses are focused on the development of basic and special movement skills and, mastering the techniques needed for the sports.					
Recommended literature:					
Languages necessary to complete the course: Slovak					
Notes: KTVŠ will provide material equipment.					
Past grade distribution Total number of evaluated students: 29					
A	B	C	D	E	FX
93,1	0,0	0,0	0,0	0,0	6,9

Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Tomáš Lovecký
Last change: 16.06.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023						
University: Comenius University Bratislava						
Faculty: Faculty of Mathematics, Physics and Informatics						
Course ID: PriF.KEGD/N-bUGE-055/22			Course title: Statistics for Geography Teachers			
Educational activities: Type of activities: lecture / practicals Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 1.						
Educational level: I.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 90						
A	ABS	B	C	D	E	FX
7,78	0,0	3,33	15,56	12,22	30,0	31,11
Lecturers: Mgr. Gabriela Nováková, PhD.						
Last change: 11.11.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KTV/1-UXX-152/22	Course title: Summer Sports Camp
Educational activities: Type of activities: training session Number of hours: per week: per level/semester: 5d Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2., 4.	
Educational level: I.	
Prerequisites:	
Antirequisites: FMFI.KTV/1-MXX-217/18	
Course requirements: The final evaluation of the subject includes the completion of all compulsory disciplines and the assessment of the acquired abilities to perform individual disciplines independently, methodically correct, or with instruction. At least 91% of points must be obtained to obtain an A rating, at least 81% to obtain a B rating, at least 71% to obtain a C rating, at least 61% to obtain a D rating and at least 50% to obtain an E rating. Credits will not be awarded to a student who scores less than 50% of the points.	
Learning outcomes: Gain basic theoretical knowledge and practical skills from hiking, living and physical activities in nature. Masters the theoretical basis for the selection of a suitable natural area for the implementation of individual sports in nature. The student is able to characterize individual sports in nature and forms of their implementation. Masters the theoretical basis of didactics of training and improving movement techniques in selected outdoor sports. Masters the theoretical basis of selection, setting, use and maintenance of basic material equipment for selected sports in nature.	
Class syllabus: A comprehensive overview of theoretical and practical problems in tourism, stay and physical activities in nature and the prerequisites for their solution. Outdoor sports in connection with the development of modern society. Impact of outdoor sports on the environment, regional development, tourism and the economy. Historical aspects of outdoor sports and their position in human society. Basic division of outdoor sports. (Summer, winter, water, board, technical, motor, Olympic, ...) Institutional provision of outdoor sports in our country and in the world. The structure of sports performance of selected outdoor sports. The structure of sports performance in canoeing, road and mountain biking. Training and improving the technique of implementation of selected outdoor sports. Training and improvement of kayaking and canoeing, road and mountain biking. Training and improvement of shooting with air weapons.	
Recommended literature: 1. Židek, J.: Turistika a ochrana života a zdravia. Bratislava. FTVŠ UK 2013, 123 s. ISBN	

9788022333986 2. Michal, J.: Vybrané kapitoly zo sezónnych činností. PF UMB 1998 str.108 ISBN 80-85162-99-7 3. Neuman a kol. : Turistika a sporty v přírodě. Praha, Portál 2000. 4. Žídek, J.: Turistika. Bratislava, FTVŠ UK 2004. 5. Kompán, J.- Gorner, K. 2007. Možnosti uplatnenia turistiky a pohybových aktivít v prírode. FHV UMB ISBN 80-8083-365-7 6. Stejskal, T.: Vodná turistika. Prešov 1999. 7. Sýkora, B. a kol.: Turistika a sporty v přírode. SPN Praha, 1986. 8. Zajac a kol.: Športy a turistika na vode. Šport, Bratislava,					
Languages necessary to complete the course: Slovak					
Notes: KTVŠ will provide sports and material equipment					
Past grade distribution Total number of evaluated students: 20					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Tomáš Kuchár, PhD., PaedDr. Dana Mašlejová, Mgr. Martin Dovičák, PhD., Mgr. Jana Leginusová, Mgr. Tomáš Lovecký, Mgr. Ladislav Mókus, Mgr. Branislav Nedbálek, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Viktor Sládok					
Last change: 16.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-133/18		Course title: Supplementary English Course (1)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: I.					
Prerequisites:					
Course requirements: tests, homework Scale of assessment (preliminary/final): 100/0 credit - ongoing evaluation Minimum 65 percent of the total points for the assigned work is needed to pass the course. Points can be awarded for attendance, completed homework tasks, and short tests assigned during the course. A 100-93 %B 92-85 %C 84-77 %D 76-70 %E 69-65 % Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/					
Learning outcomes:					
Class syllabus: Texts dealing with the most important topics for FMPI majors combining grammar revision with vocabulary needed to pass the A4 English exam.					
Recommended literature: Study materials are created by the teacher and available in electronic form. Raymond Murphy: Essential Grammar in Use, Cambridge University Press, 1998 Michael McCarthy, Felicity O'Dell: English Vocabulary in Use, Cambridge University Press, 1994					
Languages necessary to complete the course: English					
Notes:					
Past grade distribution Total number of evaluated students: 49					
A	B	C	D	E	FX
48,98	18,37	8,16	6,12	6,12	12,24
Lecturers: Mgr. Ing. Jana Kočvarová					

Last change: 11.04.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023					
University: Comenius University Bratislava					
Faculty: Faculty of Mathematics, Physics and Informatics					
Course ID: FMFI.KJP/1-MXX-134/18		Course title: Supplementary English Course (2)			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: I.					
Prerequisites:					
Course requirements: tests, homework Scale of assessment (preliminary/final): 100/0 ENcredit - ongoing evaluation Minimum 65 percent of the total points for the assigned work is needed to pass the course. Points can be awarded for attendance, completed homework tasks, and short tests assigned during the course. A 100-93 % B 92-85 % C 84-77 % D 76-70 % E 69-65 %Course prerequisites: https://fmph.uniba.sk/microsites/kjp/katedra-jazykovej-pripravy/poziadavky-na-udelenie-priebezhneho-hodnotenia-aj1aj2aj3-ostatne-kurzy/					
Learning outcomes:					
Class syllabus: Texts dealing with the most important topics for FMPI majors combining grammar revision with vocabulary needed to pass the A4 English exam.					
Recommended literature: Study materials are created by the teacher and available in electronic form. Raymond Murphy: Essential Grammar in USe, Cambridge University Press, 1998 Michael McCarthy, Felicity O'Dell: English Vocabulary in Use, Cambridge University Press, 1994					
Languages necessary to complete the course: English					
Notes:					
Past grade distribution Total number of evaluated students: 53					
A	B	C	D	E	FX
54,72	13,21	1,89	9,43	5,66	15,09
Lecturers: Mgr. Ing. Jana Kočvarová					
Last change: 11.04.2024					

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-122/22	Course title: Teacher Training - Practical Part
Educational activities: Type of activities: training session Number of hours: per week: per level/semester: 3d Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2., 4.	
Educational level: I.	
Prerequisites: FMFI.KDMFI/1-UXX-121/22 - Teacher Training - Theoretical Part	
Course requirements: Ongoing evaluation: implementation and evaluation of activities during the concentration Indicative assessment scale: A 94%, B 86%, C 79%, D 70%, E 60%, Fx <60% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Students will be able to implement their motivational activities during the training, prepared during the course "Teacher training - theoretical training". We will then evaluate these activities and suggest possible modifications. The implementation of their own activities and their subsequent reflection will provide students with valuable experience for the preparation of their future educational activities aimed at motivating the teaching of mathematics, physics, computer science and other science subjects.	
Class syllabus: - Popularization lectures - Didactic games - Didactic competitions - Motivational activities focused on mathematics, physics, computer science and other science subjects suitable for camps and schools in nature.	
Recommended literature: Didactic games in mathematics / Peter Vankúš. Bratislava: KEC FMFI UK, 2012 Child, school and mathematics: Constructivist approaches to teaching / Milan Hejný, František Kuřina. Prague: Portal, 2001 Mathematical feeling / Jo Boalerová. Bratislava: Tatran, 2016 Own electronic materials published via the subject's website (course in LMS Moodle)	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 12					
A	B	C	D	E	FX
83,33	0,0	0,0	0,0	0,0	16,67
Lecturers: PaedDr. Peter Vankúš, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-121/22	Course title: Teacher Training - Theoretical Part
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1., 3.	
Educational level: I.	
Prerequisites:	
Course requirements: Continuous assessment: proposal of motivational activities, output in front of the board Indicative assessment scale: A 94%, B 86%, C 79%, D 70%, E 60%, Fx <60% Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Students will get acquainted with some activating methods and motivational activities suitable for teaching mathematics, physics, computer science and other science subjects. Based on this, they will create a proposal of their own activities, which they will present in front of their classmates and thus gain valuable experience for their future teaching practice.	
Class syllabus: - Popularization lectures - Didactic games - Didactic competitions - Motivational activities focused on mathematics, physics, informatics and other science subjects suitable for camps and schools in nature	
Recommended literature: Didactic games in mathematics / Peter Vankúš. Bratislava: KEC FMFI UK, 2012 Child, school and mathematics: Constructivist approaches to teaching / Milan Hejný, František Kuřina. Prague: Portal, 2001 Mathematical feeling / Jo Boalerová. Bratislava: Tatran, 2016 Own electronic materials published via the subject's website (course in LMS Moodle)	
Languages necessary to complete the course: Slovak	
Notes:	

Past grade distribution					
Total number of evaluated students: 26					
A	B	C	D	E	FX
88,46	0,0	0,0	0,0	0,0	11,54
Lecturers: PaedDr. Peter Vankúš, PhD.					
Last change: 22.06.2022					
Approved by:					

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFLKDMFI+KAG/1- UXX-851/22	Course title: Teaching Practice A (1)
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 5d Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Course evaluation is conditional on: • completing observations (lessons) in the scope of an hour-long training teacher, • active participation of the student in extracurricular and extracurricular activities of a practicing teacher, • evaluation of the student by the training teacher, • evaluation of the pedagogical diary, which the student submits to the head of the pedagogical practice within the set deadline. In total, a student can get 42 points for pedagogical practice. The evaluation of the subject is graded in percentage as follows: A (100-91%); B (90-81%); C (80-71%); D (70-61%); E (60-50%). At least 38 points must be obtained to obtain an A rating, at least 34 points to obtain a B rating, at least 30 points to obtain a C rating, at least 26 points to obtain a D rating and at least 21 points to obtain an E rating. Credits will not be awarded to a student who obtains less than 21 points out of the total number of points. For non-compliance with the set deadlines and instructions of the head of the pedagogical practice, the student may be sanctioned by lowering the evaluation, or by not granting credits for the pedagogical practice.	
Learning outcomes: By completing the course, the student: • deepen knowledge in the field of generally binding legal regulations related to the work of teachers, pedagogical and other documentation, conceptual and strategic documents of the school, • develop the professional competencies necessary for independent planning, design, management and organization of the educational process in the relevant subject on the basis of valid curricular documents, while adapting educational programs for specific groups of students, • develop professional competencies associated with didactic, pedagogical, psychological analysis of individual parts of the lesson, • develop the ability to apply pedagogical-psychological and professional-didactic knowledge in the educational process,	

- develop the ability to evaluate diverse pedagogical situations and processes,
- deepen knowledge about the differences in the development of individuals resulting from their health, social disadvantages, talents or talents so that they can effectively cooperate with special pedagogues, psychologists and other professionals in the implementation of the educational process in the conditions of inclusive education and follow their professional recommendations and conclusions
- develop skills in working with teaching aids,
- acquire competencies associated with the creation of a pedagogical portfolio,
- develop competencies of self-assessment and further professional development,
- develop the ability to assess the suitability of the chosen means of education,
- develop communication skills, the ability to express and accept constructive criticism and praise.

Class syllabus:

Getting acquainted with the conditions of implementation of pedagogical practice.

Familiarization with pedagogical documentation, conceptual and strategic documents of the training school.

Participation in teaching within the scope of the training teacher, extra-class and extracurricular activities.

Creation of observation records from the teaching teacher 's lessons.

Creation of lesson analyzes.

Creation of written preparations for lessons.

Creation of a pedagogical diary and its submission to the head of pedagogical practice.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 35

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

Lecturers: RNDr. Michal Winczer, PhD., Mgr. Michaela Vargová, PhD., RNDr. Martina Bátorová, PhD., PaedDr. Peter Horváth, PhD.

Last change: 01.08.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFLKDMFI+KAG/1- UXX-852/22	Course title: Teaching Practice B (1)
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 5d Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 6.	
Educational level: I.	
Prerequisites:	
Course requirements: Course evaluation is conditional on: • completing observations (lessons) in the scope of an hour-long training teacher, • active participation of the student in extracurricular and extracurricular activities of a practicing teacher, • evaluation of the student by the training teacher, • evaluation of the pedagogical diary, which the student submits to the head of the pedagogical practice within the set deadline. In total, a student can get 42 points for pedagogical practice. The evaluation of the subject is graded in percentage as follows: A (100-91%); B (90-81%); C (80-71%); D (70-61%); E (60-50%). At least 38 points must be obtained to obtain an A rating, at least 34 points to obtain a B rating, at least 30 points to obtain a C rating, at least 26 points to obtain a D rating and at least 21 points to obtain an E rating. Credits will not be awarded to a student who obtains less than 21 points out of the total number of points. For non-compliance with the set deadlines and instructions of the head of the pedagogical practice, the student may be sanctioned by lowering the evaluation, or by not granting credits for the pedagogical practice.	
Learning outcomes: By completing the course, the student: • deepen knowledge in the field of generally binding legal regulations related to the work of teachers, pedagogical and other documentation, conceptual and strategic documents of the school, • develop the professional competencies necessary for independent planning, design, management and organization of the educational process in the relevant subject on the basis of valid curricular documents, while adapting educational programs for specific groups of students, • develop professional competencies associated with didactic, pedagogical, psychological analysis of individual parts of the lesson, • develop the ability to apply pedagogical-psychological and professional-didactic knowledge in the educational process,	

- develop the ability to evaluate diverse pedagogical situations and processes,
- deepen knowledge about the differences in the development of individuals resulting from their health, social disadvantages, talents or talents so that they can effectively cooperate with special pedagogues, psychologists and other professionals in the implementation of the educational process in the conditions of inclusive education and follow their professional recommendations and conclusions
- develop skills in working with teaching aids,
- acquire competencies associated with the creation of a pedagogical portfolio,
- develop competencies of self-assessment and further professional development,
- develop the ability to assess the suitability of the chosen means of education,
- develop communication skills, the ability to express and accept constructive criticism and praise.

Class syllabus:

Getting acquainted with the conditions of implementation of pedagogical practice.

Familiarization with pedagogical documentation, conceptual and strategic documents of the training school.

Participation in teaching within the scope of the training teacher, extra-class and extracurricular activities.

Creation of observation records from the teaching teacher 's lessons.

Creation of lesson analyzes.

Creation of written preparations for lessons.

Creation of a pedagogical diary and its submission to the head of pedagogical practice.

Recommended literature:

All valid textbooks for primary and secondary schools

Innovated SEP for the 2nd grade of elementary school

An innovated SEP for grammar schools with a four-year and five-year educational program

Target requirements for knowledge and skills of high school graduates in biology

ŠkVP training school

Internal rules of the school

Gnoth, M., Ušáková, Fulková, E., Likavský, P., Turanová, L., Čipková, E., Tóthová, A., Grančičová, A. 2003. Pedagogical practice for students of teacher combinations at the Faculty of Science, Comenius University. Bratislava: Comenius University Bratislava, 2003. 140 p.

Kosová, B., Tomengová, A. 2015. Professional practical training of future teachers. Banská Bystrica: Belianum, 2015. 225 p.

DOUŠKOVÁ, K., LUPTÁKOVÁ-VANČÍKOVÁ, K. 2009. Pedagogical practice in teacher training. Banská Bystrica: Matej Bel University, 2009. FULKOVÁ, E., GNOTH, M. 2004.

Pedagogical practice. Nitra: Slovak University of Agriculture, 2004. GAVORA, P. 1997. ABC observations of teaching. Prešov: Metodicko-pedagogické centrum, 1997. KONTÍROVÁ, S. 2011. Pedagogical practice of students of academic subjects. Košice: Pavel Jozef Šafárik University, 2011.

FULKOVÁ, E., GNOTH, M. 2004. Pedagogical practice. Nitra: Slovak University of Agriculture, 2004.

State curriculum for ISCED 2 and ISCED 3

KONTÍROVÁ, S. 2011. Pedagogical practice of students of academic subjects. Košice: Pavel Jozef Šafárik University, 2011.

Languages necessary to complete the course:

Notes:

Past grade distribution						
Total number of evaluated students: 23						
A	ABS	B	C	D	E	FX
82,61	0,0	17,39	0,0	0,0	0,0	0,0
Lecturers: RNDr. Michal Winczer, PhD., Mgr. Michaela Vargová, PhD., RNDr. Martina Bátorová, PhD., PaedDr. Peter Horváth, PhD., M. A. Linda Steyne, PhD., PhDr. Michael Fuchs, Mgr. Milica Križanová, PhD., PaedDr. Anna Drozdíková, PhD., doc. PaedDr. Elena Čipková, PhD., RNDr. Peter Likavský, CSc., RNDr. Henrieta Mázorová, PhD., RNDr. Soňa Kudličková, CSc.						
Last change: 01.08.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-132/22	Course title: Theoretical Fundaments of Education
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 13 / 13 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 4.	
Educational level: I., II.	
Prerequisites:	
Antirequisites: FMFI-Prif.KDPP/1-UXX-132/10	
Course requirements: The course is completed by evaluation, the ratio of continuous / final evaluation is 100/0. Continuous assessment: active participation in seminars and cooperation with other students (30), homework assignments (30), elaboration of the assigned topic and its presentation at the seminar (20), seminar paper (20) The condition for successful completion of the course is to obtain half of the points for participation in seminars and homework and submit a presentation and seminar paper. At least 60% of the maximum possible evaluation of the subject must be obtained. The rating is given on a scale: A (100-91%, excellent - excellent results), B (90-81%, very good - above average standard), C (80-73%, good - normal reliable work), D (72-66%, satisfactory - acceptable results), E (65-60%, sufficient - results meet minimum criteria), Fx (59-0%, insufficient - additional work required) Scale of assessment (preliminary/final): 100/0	
Learning outcomes: Upon successful completion of the course, the students have basic knowledge of selected pedagogy disciplines about the nature of education, the philosophical basis of pedagogical thinking and theoretical concepts of education in a historical context. They understand basic pedagogy term, has knowledge of the domains of education. They know the basic development trends of pedagogy, as well as the basic developmental stages of the school. Students understand the school as an institution of formal education and knows the forms of non-formal education. They have basic knowledge about selected current problems of pedagogical practice, about the family and its functions, about the pupil and about learning problems and about educational problems at school.	
Class syllabus: Educational sciences: traditional and modern concepts. Understanding of education and its explanation. Socialization and education. Philosophical basis of pedagogical thinking. Theoretical	

concepts of education. Social context of upbringing and education. Education in the changes of time (basic development trends of pedagogy - J. A. Komenský, J. J. Rousseau, J. H. Pestalozzi, J. F. Herbart and pedagogical currents of the 20th century). Subject and object of education, educational interaction. Teacher personality and profession. Institutionalization of education. School, its development and functions. Alternative schools. The student and his social role, family and its educational function, cooperation with the school. Selected current problems of educational practice. Educational problems, education of students with special educational needs. Educational impacts of the school (school climate, hidden curriculum). From education to self-education, free education.

Recommended literature:

BAĎURÍKOVÁ, Z. et al. 2001. School pedagogy. Bratislava: Comenius University.
 BREAUX, A. : Quick help for teachers. Portal. 2020.
 DYTRTOVÁ, R. - KRHUTOVÁ, M. 2009. Teacher: příprava na profesi. Prague: City.
 FONTANA, D. 2014. Psychology in school practice. Prague: Portal.
 GINNIS, P. : Effective Teaching Tools for Teachers. Universum Publishing House, 2019.
 GORDON, T. : School without Losers. Malvern. 2015.
 HAVLÍK, R. - KOŤA, J. 2001. Sociology of education and school. Prague: Portal.
 HELUS, Z. 2007. Social psychology for pedagogues. Prague: City.
 HLASNA, Slavka et al. 2006. Introduction to pedagogy. Nitra: Enigma.
 JEDLIČKA, R., KOŤA, J., SLAVÍK, J., 2018. Educational psychology for teachers. Prague: Grada Publishing, a. s., 2018.
 KRATOCHVÍLOVÁ, Emília et al. 2007. Introduction to pedagogy. Trnava: Faculty of Education, Trnava University in Trnava.
 KYRIACOU, CH. 2005. Solving educational problems at school. Prague: Portal.
 KYRIACOU, CH. 2008. Key teacher skills. Prague: Portal.
 MOŽNÝ, I. 2008. Family and society. Prague: SocioLOGické Nakladatelství (SLON).
 ONDREJKOVIC, P. et al. 2009. Social pathology. Bratislava: Science.
 PRŮCHA, J. 2017. Modern pedagogy. Prague: Portal.
 POTOČÁROVÁ, M. 2008. Pedagogy of the family. Bratislava: UK.
 SMETÁČKOVÁ, I., ŠTECH, S. : Učitelské vyhoření. Portal. 2020.
 VACEK, P. 2008. Development of moral consciousness of students. Prague: Portal.
 VALIŠOVÁ, A - KASÍKOVÁ, H. 2007. Pedagogy for teachers. Prague: City.
 ZELINA, M. 2004. Theories of education or search for good. Bratislava: SPN.

Languages necessary to complete the course:

Slovak and Czech language

Notes:

Past grade distribution

Total number of evaluated students: 98

A	B	C	D	E	FX
63,27	20,41	9,18	5,1	0,0	2,04

Lecturers: Mgr. Lucia Budinská, PhD., Mgr. Karolína Miková, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/1-UXX-134/22	Course title: Theory of Teaching
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 3.	
Educational level: I., II., N	
Prerequisites:	
Antirequisites: FMFI.KDMFI/1-UXX-134/18	
Course requirements: The course is completed by a written exam (20%). A minimum of 60% of the semester is required to be admitted to the exam. During the semester, students implement at least one didactic output (20%), actively participate in exercises (20%), solve assignments during lectures (10%), prepare a term paper (10%), read and report the content of recommended literature (10%), 2 tests during the semester (10%) The rating is given on a scale: A: 93-100%, excellent - excellent results, B: 85-92%, very good - above average standard, C: 76-84%, good - normal reliable work, D: 68-75%, satisfactory - acceptable results, E: 60-67%, sufficient - the results meet the minimum criteria, Fx: 0-59%, insufficient - additional work required Scale of assessment (preliminary/final): 80 /0 20	
Learning outcomes: Acquisition of basic theoretical knowledge in didactics, development of knowledge, skills and attitudes associated with the teaching profession, the ability to plan and organize students' learning activities. Students will gain an overview of basic didactic terminology, knowledge prerequisites to view the teaching process as a system whose individual elements (teaching objectives, curriculum content, teaching methods, teaching aids and techniques, organizational forms of teaching, teaching concepts; communication between teacher and students, as well as monitoring and evaluation of the teaching process and teacher preparation for teaching) are closely linked and to be able to use the acquired knowledge in specific planning of the teaching process (creating a "scenario" of the lesson). They will gain basic habits of working with the class as a group.	
Class syllabus:	

Didactics as a scientific discipline (subject of research, methods of didactic research, terminology), its position in the system of pedagogical disciplines

Didactics system

Teaching process

Content of education, curriculum, didactic analysis of curriculum

Taxonomy of educational goals

Teaching planning

Teaching principles

Teaching methods, teaching strategies

Testing and evaluation

Learning tasks and didactic tests

Current teaching concepts (project, problematic, programmed, differentiated, group, cooperative, problematic, project, research-oriented, authentic, constructivist, online, electronic, hybrid, modular, integrated thematic (ITV), STEM / STEAM, mastery learning, closed cycle (SVUC), Hejného method

Organizational forms of teaching

Teaching aids and teaching equipment

Recommended literature:

ČAPEK, R. 2015. Modern didactics: Lexicon of teaching and assessment methods. Prague: City.

FERENCOVÁ, J., KOSTURKOVÁ, M. 2020. Chapters from didactics. From learning to teaching. Prešov: Rokus publishing.

KALHOUS, Z., OBST, O. 2001. School didactics. Prague: Portal.

SKALKOVÁ, J. 2007. General didactics. 2nd ed. Prague: City.

KOŽUCHOVÁ, M. et al. 2000. General didactics. Bratislava: Science.

OBDRŽÁLEK, Z. et al. 2003. Didactics for elementary school students. Bratislava: UK.

PASCH, M. et al. 1998. From educational program to lesson. Prague: Portal.

PETLÁK, E. 2016. General didactics. Bratislava: Iris.

PETTY, G. 1996. Modern teaching. Prague: Portal.

PRŮCHA, J. 2002. Modern pedagogy. 3rd ed. Prague: Portal.

TUREK, I. 2014. Didactics. Bratislava: Iura Edition.

TÓTHOVÁ, R., KOSTRUB, D., FERKOVÁ, Š. 2017. Pupil, teacher, teaching. Bratislava: Rokus.

Languages necessary to complete the course:

Slovak, Czech

Notes:

Past grade distribution

Total number of evaluated students: 138

A	B	C	D	E	FX
42,75	23,91	15,94	7,97	2,17	7,25

Lecturers: Mgr. Karolína Miková, PhD.

Last change: 22.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KTV/1-UXX-151/22	Course title: Winter Sports Camp
Educational activities: Type of activities: training session Number of hours: per week: per level/semester: 5d Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1., 3., 5.	
Educational level: I.	
Prerequisites:	
Antirequisites: FMFI.KTV/1-MXX-216/18	
Course requirements: The final evaluation of the subject includes the completion of all compulsory disciplines and the assessment of the acquired abilities to perform individual disciplines independently, methodically correct, or with instruction. At least 91% of points must be obtained to obtain an A rating, at least 81% to obtain a B rating, at least 71% to obtain a C rating, at least 61% to obtain a D rating and at least 50% to obtain an E rating. Credits will not be awarded to a student who scores less than 50% of the points.	
Learning outcomes: The student knows the history of skiing in the world and in Slovakia. He masters the nomenclature, classification scales of licenses, material equipment, knowledge of the terrain and movement in winter in various weather conditions. He knows the fitness, technical training in downhill skiing. Masters the practical skills of using and maintaining the equipment. Controls the specific way of movement in mountain and ski terrain, ways of calling for help. He knows the ways of teaching instruction and the work of an instructor in a ski school.	
Class syllabus: History, terminology, classification Material and technical equipment Principles of safety in the mountains Basic skiing skills - improving technique Visit to the ski service in the resort	
Recommended literature: 1. BLAHUTOVÁ, A. (2002). Technika a metodika zjazdového lyžovania. 2. BLAHUTOVÁ, A.(2017). Technika a didaktika lyžovanie, Učebné texty, KU, Ružomberok 2017 3. EGYHÁZY, A. (1988). Lyžovanie – Základný lyžiarsky výcvik. Učebné texty pre školenie cvičiteľov. Šport, Bratislava 1988.	

4. HELLEBRANDT, V. (2002). Technika a metodika carvingových oblúkov v zjazdovom lyžovaní. Vysokoškolské učebné texty. FTVŠ Bratislava 2002.
5. PŘÍBRAMSKÝ, M. (2002). Česká škola lyžování. Carving. Praha: UK FTVS, 2002.
6. SOSNA, I. Carving ad 1972. (2006). Snow 2006, č.25, s.32 -33.
7. SOUKUP, J. (1991): Lyžování podle alpských lyžařských škol. Praha, Olympia, 1991.
8. ŠTUMBAUER, J. - VOBR, R. (2007). Carving. České Budejovice: KOPP, 2007, 125 s.
9. ŽÍDEK, J. et al. (1993). Lyžovanie. Vysokoškolské skriptá. Bratislava, UK 1993

Languages necessary to complete the course:

Slovak

Notes:

KTVŠ does not rent ski equipment.

Past grade distribution

Total number of evaluated students: 33

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

Lecturers: Mgr. Tomáš Kuchár, PhD., PaedDr. Dana Mašlejová, Mgr. Martin Dovičák, PhD., Mgr. Jana Leginusová, Mgr. Tomáš Lovecký, Mgr. Ladislav Mókus, Mgr. Branislav Nedbálek, PaedDr. Mikuláš Ortutay, Mgr. Júlia Raábová, PhD., Mgr. Viktor Sládok

Last change: 16.06.2022

Approved by: