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University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ BGEE/11	ourse ID: ÚBEV/ Course name: Biogeography GEE/11		
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pro	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present		
Number of ECTS cr	edits: 6		
Recommended seme	ester/trimester of the cours	e: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination.	se completion:		
Learning outcomes: Broadened contemporary knowledge of the principles of distribution of living biota on Earth with regard to its history and evolution of global ecosystems. To apply modern methods of ecology, molecular biology and genetics to the study of the recent distribution of organisms			
Brief outline of the course: The subject concentrates on environmental and ecological perspectives to show how they have impacted the evolution, distribution and diversity of species. Updated to reflect current research, it involves short introduction to the discipline, then describes the environmental setting and basic biogeographic patterns, earth history and fundamental biogeographic processes, the evolutionary history of lineage and biotas, ecological biogeography, conservation biogeography, and the future of the discipline.			
Recommended literature: Darlington P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA, p. 1-690 Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates. 1-845			
Course language: English language			
Notes:			
Course assessment Total number of assessed students: 32			
N P			
	0.0 100.0		
Provides: prof. RNDr. Martin Bačkor, DrSc., prof. RNDr. Ľubomír Kováč, CSc.			
Date of last modification: 10.12.2021			

Approved:

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ BiSP3/11	se ID: ÚBEV/ Course name: Biospeleology II B/11			
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present			
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: III.				
Prerequisities:				
Conditions for cours Oral examination.	e completion:			
Learning outcomes: Broadened contempo	rary knowledge in cave biol	logy using modern scientific publications.		
Brief outline of the course: The subject offers a concise and comprehensive introduction to cave ecology. There is an emphasis on biological processes occurring in these unique environments as well as on conservation and management aspects. It includes a global range of examples and case studies from both caves and non-cave subterranean habitats. The content of the subject is following: (1) subterranean domain, (2) sources of energy in subterranean environments, (3) survey of subterranean life, (4) ecosystem function, (5) biotic interactions and community structure, (6) adaptations to subterranean life, (7) colonization and speciation in subterranean environments, (8) geography of subterranean biodiversity, (9) some representative subterranean communities, (10) conservation and protection of subterranean habitats.				
Recommended literature: Culver D.C., Pipan T., 2009: The biology of caves and other subterranean habitats. Oxford University Press, 1-254 Romero, A., 2009: Cave biology – life in darkness. Cambridge University Press, 1-291 Wilkens H., Culver D.C., Humphreys W.F., 2000: Subterranean Ecosystems. Ecosystems of the World, vol. 30. Elsevier, 1-791				
Course language: English language.				
Notes:				
Course assessment Total number of assessed students: 19				
	N	Р		
	0.0	100.0		

Provides: prof. RNDr. Ľubomír Kováč, CSc.

Date of last modification: 09.12.2021

Approved:

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ INVD/11	Course ID: ÚBEV/ Course name: Biotic Invasions			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present			
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: III.				
Prerequisities:				
Conditions for cours Based on selected top Oral examination.	e completion: bic prepared by the doctoral	student inform of presentetaion (PowerPoint).		
Learning outcomes: Actual status of the most important invasive organisms in global scale, causality and mechanisms of the effect of biotic invasions, management of nature protection and invasive species.				
 Brief outline of the course: 1. Causality of biotic invasions. 2. Mechanisms of the effects of biotic invasions. 3. Dispersal routes and conditions of dispersal of alien taxa. 4. Important invasive organisms in Europe. 5. Invasions of terrestrial organisms and their specificity. 6. Invasions of aquatic organisms and their specificity. 				
Recommended literature: Baker, H.G., Mooney, H.A., James A. Drake, 1986: Ecology of Biological Invasions of North America and Hawaii. Ecological Studies, vol. 58, Springer-Verlag, 1–321. Pimentel, D., 2011: Biological Invasions: Economic and Environmental Costs of Alien Plant, Animal, and Microbe Species, 2nd edition, CRC Press, 1–463. Simberloff, D., Rejmánek, M., 2011: Encyclopedia of Biological Invasions. 1st edition, University of California Press, 1–792.				
Course language: English language.				
Notes:				
Course assessment Total number of assessed students: 23				
N P				
	0.0	100.0		

Provides: prof. RNDr. Martin Bačkor, DrSc., doc. RNDr. Andrej Mock, PhD.

Date of last modification: 09.12.2021

Approved:

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ CHI3/11	// Course name: Chiropterology		
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present		
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of the cours	e: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Based on presentatio Oral examination.	se completion: n of an elaborated topic.		
Learning outcomes: Broadened contempo	orary knowledge on bat ecolo	ogy	
Brief outline of the course: The new knowledge on bat autecology and population ecology will be presented in the course. Life history and social biology. Sensoric ecology and communication. Ecology of migration. Hibernation. Echolocation. long-term trends, roost ecology, diet and foraging ecology, habitat using, molecular ecology. Ecomorophology. Ecophysiology and metabolic energetics. Macroecology, diversity.			
Recommended literature: Kunz T. H. & Fenton M. B. (eds), 2003: Bat ecology. The University of Chicago Press, Chicago and London, 779 pp. Kunz T. H. & Parsons S. (eds), 2009: Ecological and behavioral methods for the study of bats. Second edition. Johns Hopkins University Press.			
Course language: English language.			
Notes:			
Course assessment Total number of assessed students: 13			
	N P		
0.0 100.0			
Provides: doc. RNDr. Marcel Uhrin, PhD.			
Date of last modification: 05.10.2017			
Approved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ CM/04	Course name: Citation in monograph		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the course: 2., 4., 6., 8.		
Course level: III.			
Prerequisities:	Prerequisities:		
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ CZC/04	Course ID: ÚBEV/ Course name: Citation in scientific journal published abroad ZC/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cro	edits: 10		
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 63			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved:	Approved:		

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ CDC/04	Course name: Citation in scientific journal published in the country of residence		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 6			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ SCI/04	JBEV/ Course name: Citation registered in Science Citation Index		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	Brief outline of the course:		
Recommended litera	ature:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 84			
abs n			
100.0 0.0			
Provides:			
Date of last modification:			
Approved:	Approved:		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ DK/04	Course ID: ÚBEV/ Course name: Conference in the country of residence		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Active participation i	e completion: n the home conference.		
By actively participating in the national scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results to a wider audience using adequate means and through the Slovak language.			
Brief outline of the course:			
Recommended litera	Recommended literature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 164			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ ODZP/14	Course ID: ÚBEV/ Course name: Defence of Doctoral Thesis DDZP/14		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 30		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 60			
N P			
0.0 100.0			
Provides:			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ DZS/14	Course name: Dissertation	examination	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cours		
Course level: III.			
Prerequisities: ÚBEV	V/VEK3/11		
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 70			
N P			
0.0 100.0			
Provides:			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ EKH3/11	Course name: Ecology of Insects			
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present			
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: III.				
Prerequisities:				
Conditions for course completion: Selected theoretical topics in close relation to Dissertation Thesis. Running evaluation during the semester is based on individual presentation of a doctoral student. Oral examination is based on the theoretical knowledge on insect ecology and individual presentation of the selected topic.				
Learning outcomes: Broadening of knowl of this scientific subject	edge on insect ecology with ect.	the recent understanding and development trends		
 Brief outline of the course: 1. Effects of abiotic factors on insects. 2. Population dynamics in selected groups of insects. 3. Biocenotic characteristics of insect communities. 4. Interactions between insect communities. 5. Function and importance of insects in ecosystems. 6. Management actions for conservation of insect diversity 				
Recommended literature: Gullan P.J., Cranston P.S. (2010). The Insect: an outline of entomology. Wiley-Blackwell Capinera J.(ed.) (2008). Encyclopedia of Entomology. International databases (WOS, SCOPUS etc.)				
Course language: English language				
Notes:				
Course assessment Total number of assessed students: 16				
	Ν	Р		
	0.0 100.0			
Provides: RNDr. Pete	er Ľuptáčik, PhD.			

Date of last modification: 09.12.2021

Approved:

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: CJP/ AJD1/07	Course ID: CJP/ Course name: English Language for PhD Students 1 AJD1/07				
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the course: 1.				
Course level: III.					
Prerequisities:					
Conditions for cours Completion of e-cours Written assignments	e completion: rse English for PhD Students (lms.upjs.sk), consultations (1-3). - Professional/Academic CV, Short Academic Biography.				
Learning outcomes: The development of a of their linguistic co and syntactic aspects language for a given p purposes, level B2.	students' language skills - reading, writing, listening, speaking, improvement ompetence - students acquire knowledge of selected phonological, lexical s, development of pragmatic competence - students can effectively use the ourpose, with focus on Academic English and English for specific/professional				
Brief outline of the c Specific aspects of vocabulary developm formation, formal/in grammar tenses, pass Biography).	ourse: academic and professional English with focus on correct pronunciation, nent (noun and verb collocations, phrasal verbs, prepositional phrases, word- formal language, etc.), selected aspects of English grammar (prepositions, ive voice, etc.), academic writing (professional/academic CV, Short Academic				
Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. Košice, Vydavateľstvo ŠafárikPress, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. Ims.upjs.sk					
Course language: English, level B2 acc	ording to CEFR				
110105.					

Course assessment Total number of assessed students: 738					
N Ne P Pr abs neabs					neabs
0.0	0.0	48.1	0.0	51.9	0.0
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 16.09.2022					
Approved:					

	COURSE INFORMATION LETTER			
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: CJP/ AJD2/07	Course ID: CJP/ Course name: English Language for PhD Students 2 AJD2/07			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of ECTS cr	edits: 3			
Recommended seme	ster/trimester of the course: 2.			
Course level: III.				
Prerequisities:				
Conditions for cours Test, oral exam in acc cjp/doktorandi-upjs/)	e completion: ordance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta/			
The development of s of their linguistic co and syntactic aspects language for a given p purposes, level B2.	students' language skills - reading, writing, listening, speaking, improvement ompetence - students acquire knowledge of selected phonological, lexical s, development of pragmatic competence - students can efectively use the ourpose, with focus on Academic English and English for specific/professional			
Brief outline of the c Academic communic Specific aspects of a (formality, academic functions (expressing graphs/charts/scheme	ourse: cation (self-presentation, presenting at scientific meetings and conferences). cademic and professional English with focus on vocabulary development c word-list), English grammar (passive voice, nominalisatio), language g opinion, cause/effect, presenting arguments, giving examples, describing es, etc.). Cross-language interference.			
 Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. 				
B2 level according to	CEFR			
Notes:				

Course assessment Total number of assessed students: 729					
N Ne P Pr abs neabs					
0.27	0.0	93.83	1.1	4.8	0.0
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 10.03.2022					
Approved:					

University: P. J. Šafá	University: P. I. Šafárik University in Košice				
Faculty · Faculty of Science					
Course ID: ÚBEV/ FABE3/11	Course name: Functional Aspects of Ecosystem Biodiversity				
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present				
Number of ECTS cr	edits: 4				
Recommended seme	ster/trimester of the	course: 4.			
Course level: III.					
Prerequisities:					
Conditions for course completion: Based on elaborated topics which add to and extend Dissertation Thesis in theoretical level. Running evaluation of a doctoral student will be carried out after his oral presentation (PowerPoint). Oral examination with evaluation of theoretical knowledge and presentation of an elaborated topic.					
Learning outcomes: Broadened contemporary knowledge of functional aspects of ecosystem biodiversity.					
 Brief outline of the course: Recent knowledge on processes associated with functional aspects of biodiversity of ecosystems on Earth. 1. Complex of lectures on actual topics associated with functional aspects of biodiversity and ecosystem services. 2. Individual elaboration of a selected topic related to the course and Dissertation Thesis. 					
Recommended literature: Burkhard, B., Maes, J., 2017: Mapping Ecosystem Services. Pensoft Publishers, 1–376. Primack, R.B., 2010: Essentials of conservation biology. Fifth edition. Sinauer Associates, 1–603. International electronic sources - databases (WOS, SCOPUS etc.)					
Course language: English language.					
Notes:					
Course assessment Total number of asses	ssed students: 19				
	Ν	Р			
	0.0 100.0				
Provides: prof. RND	Provides: prof. RNDr. Martin Bačkor, DrSc., doc. RNDr. Marcel Uhrin, PhD.				
Date of last modification: 09.12.2021					
Approved:					

	COURSE INFORMATION LETTER
University: P. J. Šafárik Univ	rersity in Košice
Faculty: Faculty of Science	
Course ID: ÚBEV/ Course VEK3/11	e name: General Ecology III
Course type, scope and the r Course type: Lecture / Prac Recommended course-load Per week: 2 / 2 Per study p Course method: present	nethod: tice (hours): eriod: 28 / 28
Number of ECTS credits: 3	
Recommended semester/trin	nester of the course: 1.
Course level: III.	
Prerequisities:	
Conditions for course comp Based on the elaborated top level, the running evaluation (PowerPoint). Oral examination.	letion: ic, which will add and augment Dissertation Thesis in theoretical of a doctoral student will be carried out after his oral presetntation
Learning outcomes: Interdisciplinarity in ecology Physical Geography, Geolog scientific subjects, especially components of ecosystems.	based on utilization of data from related subjects, such as Applied gy, Pedology, Hydrology, Climatology. The importance of related in relation to environmental monitoring during the study of biotic
Brief outline of the course: 1. Basic ecological terms. 2. water). 3. Air environment environment and organisms. community characteristics. 8	Characterisation of the basic ecological factors (light, temperature, and organisms. 4. Aquatic environment and organisms. 5. Soil 6. Population and community ecology. 7. Qualitative and quantitative . Ecosystems and Biomes. 9. Bidiversity-Species-Area relationships,

12. Actual topics in general ecology.

13. Individual preparation of selected topic in association with subject and title of Dissertation Thesis.

the theory of island biogeography, cryptic diversity. 10. Functional biodiversity.11. Applied

Recommended literature:

ecology.

Begon, M., Townsend, C.R., Harper, J.L., 2006: Ecology: from individuals to ecosystems. 3rd edition, Blackwell, 1–738.

Gardener, M., 2014: Community ecology: analytical methods using R and Excel. Pelagic Publishing, 1–556.

Townsend, C.R., Begon, M., Harper, J.L., 2008: Essentials of Ecology. 3rd Edition, Blackwell, 1–530.

Course language:

English language.

Notes:			
Course assessment Total number of assessed students: 30			
N P			
0.0 100.0			
Provides: prof. RNDr. Martin Bačkor, DrSc., RNDr. Natália Raschmanová, PhD.			
Date of last modification: 13.10.2021			
Approved:			

University: P. I. Šafá	University D. I. Čeféril: University in Večice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: UBEV/ GZB3/11	Course name: Global Bios	sphere Changes			
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present				
Number of ECTS cr	edits: 4				
Recommended seme	ster/trimester of the cours	e: 4.			
Course level: III.					
Prerequisities:					
Conditions for course completion: Based on elaborated topics which add to and extend Dissertation Thesis in theoretical level. Running evaluation of a doctoral student will be carried out after his oral presentation (PowerPoint). Oral examination with evaluation of theoretical knowledge and presentation of an elaborated topic.					
Learning outcomes: Broadened knowledg	Learning outcomes: Broadened knowledge on global biosphere changes based on recent scientific literature sources.				
 Brief outline of the course: Recent knowledge on processes associated with global changes of biosphere and their potential effect on biosphere. 1. Complex of lectures on actual topics associated with the global biosphere changes. 2. Individual elaboration of a selected topic related to the course and title of Dissertation Thesis. 					
Recommended literature: Shugart, H. H., Woodward, F. I., 2011: Global change and the terrestrial biosphere: achievements and challenges. Wiley-Blackwell, 1–216. ISBN: 978-1-4051-8561-5 Walker, B.H., Steffen, W. L., Canadell, J., Ingram, J.S.I., 1999: The terrestrial biosphere and global change: implications for natural and managed ecosystems. Synthesis volume. Cambridge University Press, 1–450. International electronic databases (WOS, SCOPUS etc)					
Course language: English language.					
Notes:					
Course assessment Total number of asses	ssed students: 16				
	N	Р			
	0.0 100.0				
Provides: prof. RND	r. Martin Bačkor, DrSc., RN	Dr. Natália Raschmanová, PhD.			

Date of last modification: 09.12.2021

Approved:

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ HYD3/11	Course name: Hydrobiology II			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present				
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the cours	e: 1		
Course level: III.				
Prerequisities:				
Conditions for course completion: Based on elaborated topics which add to and extend Dissertation Thesis in theoretical level. Running evaluation of a doctoral student will be carried out after his oral presentation (PowerPoint). Oral examination with evaluation of theoretical knowledge and presentation of an elaborated topic.				
Learning outcomes: To gain and enlarge actual knowledge in limnology and ecology of broad spectra of aquatic habitats.				
Brief outline of the course: Short repetitory of basic course of Hydrobiology. Actual knowledge of limnological processes in lakes, water reservoirs and fish ponds. Interactions of abiotic and biotic components in water habitats. Global climate changes and their effect on water habitats.				
Recommended literature: Gibert, J., Danielopol, D.L., Stanford, J.A.,1994: Groundwater Ecology. Aquatic Biology Series, Academic Press, 1–571. Schwoerbel, J., 1970: Methods of Hydrobiology (Freshwater Biology). Pergamon, 1–210. Straškraba, M., Tundisi, J.G., Duncan, A., 1993: Comparative reservoir limnology and water quality management. Kluwer Academic, 1–291.				
Course language: English language.				
Notes:				
Course assessment Total number of asses	ssed students: 5			
	N P			
	0.0 100.0			
Provides: doc. RNDr. Andrej Mock, PhD.				
Date of last modifica	Date of last modification: 09.12.2021			

Approved:

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ MK/04	ourse ID: ÚBEV/ Course name: International Conference IK/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 6		
Recommended seme	ster/trimester of the cours	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 239			
abs n			
100.0 0.0			
Provides:			
Date of last modifica	Date of last modification:		
Approved:	Approved:		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ DKZU/04	Course name: International conference taking place in the country of residence			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 4			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.	Course level: III.			
Prerequisities:	Prerequisities:			
Conditions for course completion:				
Learning outcomes:				
Brief outline of the c	Brief outline of the course:			
Recommended litera	Recommended literature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 123				
	abs n			
	100.0 0.0			
Provides:				
Date of last modification:				
Approved:				

University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ ZNC/04	Course name: Journals no database and published abr	t registered in the Current Contents Connect oad
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 65	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ition:	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ DNC/04	Course name: Journals no database and published in t	t registered in the Current Contents Connect he country of residence
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 52	
	abs	n
100.0 0.0		
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚBEV/ ZKC/04	Course name: Journals reg and published abroad	sistered in the Current Contents Connect database	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 289		
abs n			
100.0 0.0			
Provides:			
Date of last modifica	Date of last modification:		
Approved:			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ DKC/04	Course name: Journals reg and published in the countr	gistered in the Current Contents Connect database y of residence
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 15	
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 19	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ NZ/04	Course name: Non-review published abroad or in the o	ed collections of papers and monographs country of residence
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 133	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ PDB3/11	Course name: Pedobiolog	gy II	
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pre	and the method: re / Practice rse-load (hours): study period: 14 / 28 esent		
Number of ECTS cr	edits: 6		
Recommended seme	ster/trimester of the cours	se: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination.	se completion:		
Learning outcomes: Broadened contempo processes in soil envi	orary knowledge in soil b ironment, soil biodiversity.	iology: soil components and their interactions,	
The subject is focus subject: (1) mineral soil subhorizons, (3) analysis of communi (6) soil biota and soi global changes and th	and biotic composition of soil-forming processes and ties of living organisms, (5) l processes, (7) soil biodive neit effects upon the soil en-	ge of soil processes in the soil. Content of the the soil, (2) soil profile, specification of organic pedogenesis, (4) soil biodiversity and methods of abiotic and biotic interactions of soil organisms, rrsity and soil protection, (8) soil degradation, (9) vironment and soil microhabitats.	
Recommended litera Coleman, D. C., Cros edition. Elsevier, 1-4 Eisenbeis G., Wichar Lavelle P., Spain A. London, 1-654	nture: ssley, D. A. Jr., Hendrix, P. 08 d W., 1987: Atlas on the bio V., 2001: Soil Ecology. Kluv	F., 2004: Fundamentals of soil ecology, 2nd ology of soil Arthropods Springer Verlag, 1-437 wer Academic Publishers. Dordrecht-Boston-	
Course language: English language.			
Notes:			
Course assessment Total number of asse	ssed students: 16		
	Ν	Р	
	0.0	100.0	
Provides: prof. RND	Provides: prof. RNDr. Ľubomír Kováč, CSc., doc. RNDr. Andrej Mock, PhD.		
Date of last modifica	Date of last modification: 09.12.2021		

Approved:

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ RZ/04	Course name: Peer-review published abroad or in in the	red collections of papers and monographs the country of residence
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e: 2., 4., 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	nture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 333	
	abs	n
100.0 0.0		
Provides:		
Date of last modifica	ition:	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ ZSP/04	Course name: Realisation	of study/research stay abroad
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e: 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 109	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚBEV/ VPBB/11	Course name: Review of a	a Bachelor Thesis
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 27	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion:	
Approved:		

University: P. J. Ša	ărik Universit	y in Košice
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Faculty: Faculty of Science

Course ID: Dek. PF	Course name: Spring School for PhD Students
UPJŠ/JSD/14	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in the Spring School of PhD students of UPJŠ.

Learning outcomes:

By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.

Brief outline of the course:

1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields.

2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields.

3. Scientific contributions of PhD students in sections of related fields.

4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.

Recommended literature:

Proceedings of the Spring School of Doctoral Students.

Course language:

Notes:

Course assessment

Total number of assessed students: 187

abs	n
100.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 08.11.2022

Approved:

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ VPSV/04	Course name: Supervisior	of Student's Scientific Activity		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the cours	e: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the course:				
Recommended litera	Recommended literature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 24				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved:	Approved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	Number of ECTS credits: 1			
Recommended seme	ster/trimester of the cours	2:		
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:	Learning outcomes:			
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 549				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	Number of ECTS credits: 1			
Recommended seme	ster/trimester of the cours	2:		
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:	Learning outcomes:			
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 549				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved:				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ POVK/04	ÚBEV/ Course name: Work in Organizing Committee of Conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 2			
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 49				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification:				
Approved:	Approved:			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ PDS/18	V/ Course name: Writing Dissertation Work			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	Number of ECTS credits: 0			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 11				
	Ν	Р		
	0.0	100.0		
Provides:				
Date of last modification:				
Approved:				