University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1				
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (h tudy period:	ours):			
Number of credits	: 2				
Recommended sen	nester/trimes	ter of the cours	e: 1.		
Course level: III.					
Prerequisities:					
Conditions for cou	irse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Course assessment Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0 0.0 56.99 0.0 43.01 0.0					0.0
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Z	uzana Kolaříkov	á, PhD., Mgr. Zu	zana Naďová
Date of last modifi	cation: 06.02	.2018			
Approved: Co-gua CSc.Guaranteeprof			in, PhD.Guarant	eeprof. RNDr. Ľu	lbomír Kováč,

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2				
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: 1	ctice ourse-load (h study period:	ours):			
Number of credits	:3				
Recommended ser	nester/trimes	ter of the cours	e: 2.		
Course level: III.					
Prerequisities:					
Conditions for cou	ırse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Course assessmen Total number of as	-	ts: 558			
N	Ne	Р	Pr	abs	neabs
0.0 0.0 92.29 1.43 6.27 0.0					0.0
Provides: PhDr. He	elena Petruňov	vá, CSc., Mgr. Z	uzana Kolaříkova	á, PhD.	
Date of last modifi	ication: 06.02	.2018			
Approved: Co-gua CSc.Guaranteeprof			in, PhD.Guarante	eeprof. RNDr. Ľu	ıbomír Kováč

University: P. J. Šafán	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ BGEE/11			
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 14 / 28		
Number of credits: 6			
Recommended seme	ster/trimester of the cours	e: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination.	e completion:		
regard to its history a	nd evolution of global ecos	ciples of distribution of living biota on Earth with ystems. To apply modern methods in the study of nd molecular biology and genetics.	
impacted the evolution it involves short intro- biogeographic pattern	ates on environmental and on, distribution and diversit duction to the discipline, th as, earth history and fundar	ecological perspectives to show how they have y of species. Updated to reflect current research, hen describes the environmental setting and basic nental biogeographic processes, the evolutionary raphy, conservation biogeography, and the future	
1-690	Zoogeography: The geogr	aphical distribution of animals. Krieger, USA, p. Biogeography. Sinauer Associates, 1-845	
Course language: English language			
Course assessment Total number of asses	ssed students: 24		
	Ν	Р	
	0.0 100.0		
Provides: prof. RND	: Martin Bačkor, DrSc., pro	f. RNDr. Ľubomír Kováč, CSc.	
Date of last modifica	tion: 23.02.2018		
	nteedoc. RNDr. Marcel Uhr NDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ BiSP3/11	1 05		
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 28		
Number of credits: ()		
Recommended seme	ster/trimester of the co	urse: 2.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination.	e completion:		
Learning outcomes: Broadened contempo	rary knowledge in cave	biology using modern scientific publications.	
on biological process management aspects, non-cave subterranea The content of the subterranean enviror interactions and com speciation in subterr	oncise and comprehensives ses occurring in these un It includes a global rangen n habitats. subject is following: (1) unents, (3) survey of su ununity structure, (6) ad anean environments, (8)	ve introduction to cave ecology. There is an emphasis nique environments as well as on conservation and ge of examples and case studies from both caves and 1) subterranean domain, (2) sources of energy in obterranean life, (4) ecosystem function, (5) biotic laptations to subterranean life, (7) colonization and 9 geography of subterranean biodiversity, (9) some conservation and protection of subterranean habitats.	
University Press, 1-2 Romero, A., 2009: C	., 2009: The biology of c 54 ave biology – life in dark D.C., Humphreys W.F., 20	eaves and other subterranean habitats. Oxford eness. Cambridge University Press, 1-291 000: Subterranean Ecosystems. Ecosystems of the	
Course language: English language.			
Course assessment Total number of asse	ssed students: 16		
	Ν	Р	
	0.0	100.0	
Provides: prof. RND	r. Ľubomír Kováč, CSc.		

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ CDC/04	Course name: Citation in scientific journal published in the country of residence	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of credits:	5	
Recommended seme	ester/trimester of the co	ourse:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 5	
	abs	n
100.0 0.0		
Provides:		
Date of last modific:	ation: 23.02.2018	
	nteedoc. RNDr. Marcel RNDr. Igor Hudec, CSc.	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Koš	ice	
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ CHI3/11	1 05		
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 14 / 28	8	
Number of credits: 3			
Recommended seme	ster/trimester of the	course: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Based on presentatio Oral examination.	-	pic.	
Learning outcomes: Broadened contempo	rary knowledge on ba	at ecology	
Life history and soc Hibernation. Echoloc	on bat autecology at ial biology. Sensorio ation. long-term trend	nd popualtion ecology will be presented in the course. c ecology and communication. Ecology of migration. ls, roost ecology, diet and foraging ecology, habitat using, ophysiology and metabolic energetics. Macroecology,	
and London, 779 pp.	M. B. (eds), 2003: B s S. (eds), 2009: Ecol	Bat ecology. The University of Chicago Press, Chicago logical and behavioral methods for the study of bats. Press.	
Course language: English language.			
Course assessment Total number of asse	ssed students: 10		
	Ν	Р	
	0.0	100.0	
Provides: doc. RNDr	Marcel Uhrin, PhD.		
Date of last modifica	tion: 23.02.2018		
Approved: Co-guara CSc.Guaranteeprof. F		el Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, Sc.	

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ CM/04					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:				
Number of credits: 2	0				
Recommended seme	ster/trimester of the course:				
Course level: III.	Course level: III.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	Brief outline of the course:				
Recommended litera	Recommended literature:				
Course language:					
Course assessment Total number of assessed students: 0					
Provides:					
Date of last modifica	tion: 23.02.2018				
	nteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, NDr. Igor Hudec, CSc.				

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	science	
Course ID: ÚBEV/ CZC/04	Course name: Citation in scientific journal published abroad	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	10	
Recommended seme	ester/trimester of the co	urse:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended liter	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 36	
	abs	n
100.0 0.0		
Provides:		
Date of last modific:	ation: 23.02.2018	
Approved: Co-guara		Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DK/04	Course name: Conference in the country of residence		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 2	2		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 131		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion: 23.02.2018		
	nteedoc. RNDr. Marcel Uh NDr. Igor Hudec, CSc.	rin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DKC/04	Course name: Journals registered in the Current Contents Connect database and published in the country of residence		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 1	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:			
Course assessment Total number of asse	ssed students: 16		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	ition: 23.02.2018		
	nteedoc. RNDr. Marcel Uhr NDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	Science		
Course ID: ÚBEV/ DKZU/04	Course name: International conference taking place in the country of residence		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits:	4		
Recommended seme	ester/trimester of the c	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 112		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modifica	ation: 23.02.2018		
	nteedoc. RNDr. Marcel RNDr. Igor Hudec, CSc	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DNC/04	Course name: Journals not registered in the Current Contents Connect database and published in the country of residence		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 5	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 40		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	ation: 23.02.2018		
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚBEV/ Course name: Doctoral exam DZS/14		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	5	
Recommended seme	ester/trimester of the cou	ırse:
Course level: III.		
Prerequisities: ÚBEV/VEK3/11		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	essed students: 48	
N P		
0.0 100.0		
Provides:		
Date of last modific:	ation: 23.02.2018	
	nteedoc. RNDr. Marcel U RNDr. Igor Hudec, CSc.	Ihrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ Course name: Plant Ecophysiology EFR/08		
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 42 / 28	
Number of credits: 8		
Recommended seme	ster/trimester of the cours	e: 2.
Course level: III.		
Prerequisities:		
Conditions for cours Benchmark during se Oral examination.	-	
Learning outcomes: The main goal of the	course is to gain basic know	vledge on plant ecophysiology.
methods of stress le shortage of oxygen a	ology - abiotic and biotic s vel evaluation. Importance	tress, specific and inspecific responses to stress of selected stress factors - light, temperature neavy metals, xenobiotics and biotic ineractions
	ogical Plant Ecology, Spring	er, 2003, 513 pp. Plant Ecology, Springer, 2002, 702 pp.
Course language: English language.		
Course assessment Total number of asses	ssed students: 31	
	Ν	Р
	0.0	100.0
Provides: prof. RND	r. Martin Bačkor, DrSc.	
Date of last modifica	tion: 23.02.2018	
	nteedoc. RNDr. Marcel Uhr NDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚBEV/ Course name: Ecology of Insects EKH3/11		
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 credits: 6		
Recommended semester/trimester of the cou	rse: 2.	
Course level: III.		
Prerequisities:		
Conditions for course completion: Elaborated theoretical topics in association with the semester is based on individual presentation Oral examination is based on the theoretical kn presentation of the selected topic.		
Learning outcomes: Broadening of knowledge on insect ecology wi trends of this scientific subject.	th the recent understanding and development	
 Brief outline of the course: 1. Effects of abiotic factors on insects. 2. Population dynamics in selected groups of in 3. Biocenotic characteristics of insect communit 4. Interactions between insect communities. 5. Function and importance of insects in ecosys 6. Management actions for conservation of insect 	ities. stems.	
Recommended literature: Gullan P.J., Cranston P.S. (2010). The Insect: a Capinera J.(ed.) (2008). Encyclopedia of Enton International databases (WOS, SCOPUS etc.)		
Course language: English language		
Course assessment Total number of assessed students: 13		
N P		
0.0	100.0	
Provides: doc. RNDr. Ľubomír Panigaj, CSc.		
Date of last modification: 23.02.2018		

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafărik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Functional Aspects of Ecosystem Biodiversity FABE3/11 Course type, scope and the method: 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 credits: 4 Recommended semester/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. Recommende literature: Burth		
Course ID: ÚBEV/ FABE3/11 Course name: Functional Aspects of Ecosystem Biodiversity FABE3/11 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 credits: 4 Recommended semester/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.		
FABE3/11 Image: Construct of the construction of the conste construction of the		
Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present Number of credits: 4 Recommended semester/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.		
Recommended semester/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.		
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.		
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.		
 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. 		
 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. Complex of lectures on actual topics associated with functional aspects of biodiversity and ecosystem services. 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. 		
 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. Complex of lectures on actual topics associated with functional aspects of biodiversity and ecosystem services. 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.		
 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.		
Burkhard, B., Maes, J., 2017: Mapping Ecosystem Services. Pensoft Publishers, 1–376.		
Course language: English language.		
Course assessment Total number of assessed students: 17		
N P		
0.0 100.0		
Provides: prof. RNDr. Martin Bačkor, DrSc., doc. RNDr. Ľubomír Panigaj, CSc., prof. RNDr. Ľubomír Kováč, CSc.		
Date of last modification: 23.02.2018		

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚBEV/ Course name: Global Biosphere Changes GZB3/11		
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 credits: 4		
Recommended semes	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 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 various habitats on Earth. 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.		
Course assessment Total number of assessed students: 14		
	Ν	Р
	0.0	100.0
Provides: prof. RNDr. Martin Bačkor, DrSc., doc. RNDr. Ľubomír Panigaj, CSc.		

Date of last modification: 23.02.2018

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ Course name: Hydrobiology II IYD3/11		
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 14 / 28	
Number of credits: 6		
Recommended seme	ster/trimester of the cou	urse: 1.
Course level: III.		
Prerequisities:		
Running evaluation of (PowerPoint).	topics which add to and e of a doctoral student will	extend Dissertation Thesis in theoretical level. be carried out after his oral presentation al knowledge and presentation of an elaborated
Learning outcomes: To gain and enlarge a habitats.	ctual knowledge in limn	ology and ecology of broad spectra of aquatic
Actual knowledge of Interactions of abiotic	sic course of Hydrobiolo	n lakes, water reservoirs and fish ponds. in water habitats.
Academic Press, 1–5 Schwoerbel, J., 1970 Straškraba, M., Tund	l, D.L., Stanford, J.A.,19 71. Methods of Hydrobiolo	94: Groundwater Ecology. Aquatic Biology Series, gy (Freshwater Biology). Pergamon, 1–210. 93: Comparative reservoir limnology and water 91.
Course language: English language.		
Course assessment Total number of asses	ssed students: 3	
	N	Р
	0.0	100.0
Provides: prof. RND	. Igor Hudec, CSc.	
Date of last modifica	tion, 22.02.2019	

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚBEV/ Course name: Biotic Invasions NVD/11		
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 credits: 6		
Recommended seme	ster/trimester of the course	e: 3.
Course level: III.		
Prerequisities:		
Conditions for cours Based on selected top Oral examination.	-	ident 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.		
 Dispersal routes ar Important invasive Invasions of terrest 		cificity.
America and Hawaii. Pimentel, D., 2011: E Animal, and Microbe	, H.A., James A. Drake, 198 Ecological Studies, vol. 58, iological Invasions: Econor Species, 2nd edition, CRC ánek, M., 2011: Encycloped	nic and Environmental Costs of Alien Plant,
Course language: English language.		
Course assessment Total number of asses	ssed students: 19	
	N	Р
	0.0	100.0
Provides: prof. RND Ľubomír Kováč, CSc.		. RNDr. Ľubomír Panigaj, CSc., prof. RNDr.

Date of last modification: 23.02.2018

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: Dek. PF Course name: Spring School for PhD Students UPJŠ/JSD/14		
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	e rse-load (hours): ly period: 4d	
Number of credits: 2		
Recommended seme	ster/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Course assessment Total number of asse	ssed students: 121	
abs n		
100.0 0.0		
Provides: prof. RND	r. Katarína Cechlárová,	DrSc.
Date of last modifica	tion: 19.02.2018	
	nteedoc. RNDr. Marcel NDr. Igor Hudec, CSc.	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ MK/04			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 6	<u>,</u>		
Recommended seme	Recommended semester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Course assessment Total number of asse	ssed students: 200		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	ition: 23.02.2018		
	nteedoc. RNDr. Marcel Uhr NDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafa	arik University in Košice	2	
Faculty: Faculty of S	Science		
Course ID: ÚBEV/ NZ/04			
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): ly period:		
Number of credits:	2		
Recommended sem	ester/trimester of the co	ourse:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Course assessment Total number of asse	essed students: 117		
	abs n		
	100.0 0.0		
Provides:			
Date of last modific	ation: 23.02.2018		
	nteedoc. RNDr. Marcel RNDr. Igor Hudec, CSc.	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ ODZP/14		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits:	30	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 33	
N P		
0.0 100.0		
Provides:		·
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel Uh RNDr. Igor Hudec, CSc.	rin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ PDB3/11	65		
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 credits: 6			
Recommended seme	ster/trimester of the course	e: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours Oral examination.	e completion:		
Learning outcomes: Broadened contemporary knowledge in soil biology: soil components and interactions, processes in soil environment, soil biodiversity.			
subject: (1) mineral a soil subhorizons, (3) analysis of communit (6) soil biota and soil	ed on the recent knowledg and biotic composition of the soil-forming processes and p ties of living organisms, (5) I processes, (7) soil biodiver	e of soil processes in the soil. Content of the he soil, (2) soil profile, specification of organic bedogenesis, (4) soil biodiversity and methods of abiotic and biotic interactions of soil organisms, sity and soil protection, (8) soil degradation, (9) ironment and soil microhabitats.	
Recommended literature: Coleman, D. C., Crossley, D. A. Jr., Hendrix, P. F., 2004: Fundamentals of soil ecology, 2nd edition. Elsevier, 1-408 Eisenbeis G., Wichard W., 1987: Atlas on the biology of soil Arthropods Springer Verlag, 1-437 Lavelle P., Spain A. V., 2001: Soil Ecology. Kluwer Academic Publishers. Dordrecht-Boston- London, 1-654			
Course language: English language.			
Course assessment Total number of assessed students: 13			
	N	Р	
	0.0	100.0	
Provides: prof. RND	. Ľubomír Kováč, CSc., RN	Dr. Andrej Mock, PhD.	
Date of last modifica	tion: 23.02.2018		
Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.			

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ PDS/18		
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of credits:	15	
Recommended seme	ester/trimester of the cours	je:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 10	
N P		
0.0 100.0		
Provides:		
Date of last modifica	ation: 17.04.2018	
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚBEV/ PDS/14	· · · · · · · · · · · · · · · · · · ·		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 1	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Course assessment Total number of asse	ssed students: 37		
abs n			
100.0 0.0			
Provides:			
Date of last modifica	ition: 23.02.2018		
	nteedoc. RNDr. Marcel Uhr NDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ POVK/04	Course name: Work in Organizing Committee of Conference	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 44	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of credits: 1		
Recommended seme	ster/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Course assessment Total number of asse	ssed students: 429	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion: 23.02.2018	
	nteedoc. RNDr. Marcel U RNDr. Igor Hudec, CSc.	hrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of credits: 1		
Recommended seme	ster/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Course assessment Total number of asse	ssed students: 429	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion: 23.02.2018	
	nteedoc. RNDr. Marcel U RNDr. Igor Hudec, CSc.	hrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	science	
Course ID: ÚBEV/ RZ/04	Course name: Peer-reviewed collections of papers and monographs published abroad or in in the country of residence	
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of credits: :	5	
Recommended seme	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 259	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ SCI/04	Course name: Citation registered in Science Citation Index	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	20	
Recommended seme	ester/trimester of the co	urse:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 52	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel RNDr. Igor Hudec, CSc.	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košic	e
Faculty: Faculty of S	science	
Course ID: ÚBEV/ SSOL/04	Course name: Samostatné štúdium odbornej literatúry	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	essed students: 232	
abs n		
100.0 0.0		
Provides:		· · ·
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel NDr. Igor Hudec, CSc.	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

Faculty: Faculty of S	
Course ID: ÚBEV/ VEK3/11	Course name: General Ecology III
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of credits: 3	;
Recommended seme	ster/trimester of the course: 1.
Course level: III.	
Prerequisities:	
	e completion: ted topic, which will add and augment Dissertation Thesis in theoretical aluation of a doctoral student will be carried out after his oral presetntation
Physical Geography,	ecology based on utilization of data from related subjects, such as Applied Geology, Pedology, Hydrology, Climatology. The importance of related pecially in relation to environmental monitoring during the study of biotic stems.
(composition of atm environment). Aquati water pollutants, eutre chemical properties, characteristics, factor Actual topics in generation	he basic ecological factors (light, temperature, water, air). Air environment osphere, physical and chemical factors, air pollutants, organisms and air ic environment (water properties physical and chemical factors, gases in water, ophication and saprobity, aquatic organisms). Soil environment (physical and soil profile, humus layer, soil pollutants, soil organisms). Biomes and their rs affecting biodiversity. Biospheric cycles.
3rd edition, Blackwel Gardener, M., 2014: (Publishing, 1–556.	d, C.R., Harper, J.L., 2006: Ecology: from individuals to ecosystems.
Course language:	

Ν	Р	
0.0	100.0	
Provides: prof. RNDr. Martin Bačkor, DrSc., prof. RNDr. Ľubomír Kováč, CSc., RNDr. Natália Raschmanová, PhD.		
Date of last modification: 23.02.2018		

Approved: Co-guaranteedoc. RNDr. Marcel Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč, CSc.Guaranteeprof. RNDr. Igor Hudec, CSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ VPBB/11		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 15	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	ation: 23.02.2018	
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ VPSV/04	Course name: Supervision of Student's Scientific Activity	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of credits: (5	
Recommended seme	ster/trimester of the cours	e: 6., 8.
Course level: III.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Course assessment Total number of asse	ssed students: 15	
abs n		
100.0 0.0		
Provides:		
Date of last modifica	tion: 23.02.2018	
	nteedoc. RNDr. Marcel Uhr RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ ZKC/04	Course name: Journals registered in the Current Contents Connect database and published abroad		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits: 2	20		
Recommended seme	ester/trimester of the c	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the o	course:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 232		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ation: 23.02.2018		
11 0	nteedoc. RNDr. Marcel RNDr. Igor Hudec, CSc	Uhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ ZNC/04	Course name: Journals not registered in the Current Contents Connect database and published abroad			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:			
Number of credits: :	5			
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Course assessment Total number of asse	ssed students: 52			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ntion: 23.02.2018			
	nteedoc. RNDr. Marcel U RNDr. Igor Hudec, CSc.	Jhrin, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,		

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 cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 2	2		
Recommended semester/trimester of the course: 6., 8.			
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ature:		
Course language:			
Course assessment Total number of asse	ssed students: 88		
	abs	n	
	100.0	0.0	
Provides:		·	
Date of last modifica	tion: 23.02.2018		
	nteedoc. RNDr. Marcel Uhi RNDr. Igor Hudec, CSc.	in, PhD.Guaranteeprof. RNDr. Ľubomír Kováč,	