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45. Survival Course	
46. The Art of Aiding by Verbal Exchange	
47. Winter Ski Training Course	
48. Zoogeography	

University: P. J. Šaf	ärik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: KFaDF AFS/05	DF/ Course name: Ancient Philosophy and Present Times				
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: p	tice urse-load (ho udy period: 1	ours):			
Number of ECTS c	redits: 2				
Recommended sem	ester/trimes	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	rature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed student	s: 31			
A	В	С	D	E	FX
80.65	6.45	6.45	0.0	6.45	0.0
Provides: Doc. PhD	r. Peter Nezn	ík, CSc.		•	
Date of last modific	cation: 12.02.	2020			
Approved: prof. RN Martin Bačkor, DrSo		ártonfi, PhD., pr	of. RNDr. Miros	slav Repčák, DrSc	., prof. RNDr.

			MATION LETT	LK		
University: P. J. Šafá	rik Universi	ty in Košice				
Faculty: Faculty of S	cience					
Course ID: ÚBEV/ Course name: Animal and human ecophysiology EFZ1/03						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (ho study perio	ours):				
Number of ECTS cr	edits: 6			_		
Recommended seme	ster/trimest	ter of the cours	e:			
Course level: II.						
Prerequisities:						
C onditions for cours Seminar. Test.	e completio	on:				
Learning outcomes: The aim of lectures is and extreme environr Brief outline of the c	nents effects ourse:	5.		- 		
Environmental factor - general adaptation pain, inflammation, fasting, starvation, ov to hypobaria and hype Biotransformation. X tumor supressor gene	syndrom. apoptosis, r verfeeding. 7 erbaria. Ada enobiotics i	Physiology and necrosis. Aging Thermoregulatic ptations to hype n air, water and	l pathology of a g. Regulation of on. Hibernation, e rgravity and micr soil. Drugs of ab	adaptation mecha food intake. For estivation, diapau rogravity. Electron	anisms - fever, ood adapations, se. Adaptations magnetic fields.	
Recommended litera 1. Wilmer P and co.: 2. Chown SL, Nicols	Environmer			•		
Course language:						
Notes:						
Course assessment Total number of asses	ssed student	s: 412				
A	В	С	D	Е	FX	
13.83	22.82	22.57	22.82	16.75	1.21	
Provides: doc. RNDr.	Bianka Boi	iková PhD		1		
	. Diama Do	jkovu, i iid.				

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University:	P. J. Šafárik	C University	in Košice				
Faculty: Faculty of Science							
Course ID: BRS1/03	ÚBEV/ C	Course name	: Biology of	Plant Symbi	oses		
Course typ Recomment Per week:	pe: Lecture nded course	d the method e-load (hour y period: 28 ent					
Number of	ECTS cred	lits: 3					
Recommen	ded semest	er/trimester	of the cours	e:			
Course leve	e l: II., III.						
Prerequisit	ies:						
Conditions	for course	completion:					
Learning of Introduction		and ecology	of plant sym	ibioses.			
plant symbi	ical, cytolog oses. Licher	irse: gical, physiol ns, mycorrhiz nd endosyml	za, symbiosis		1		1
	ek, C. a kol	ire: . 1995: Alga odern Mycolo	·	ction to phyc	ology,		
Course lang	guage:						
Notes:							
Course asse Total numb		ed students: 3	396				
А	В	C	D	Е	FX	N	Р
96.21	0.0	0.0	0.0	0.0	0.0	0.0	3.79
Provides: p	rof. RNDr. 1	Martin Bačko	or, DrSc.				
Date of last	modificati	on: 03.05.20	15				
Approved: Martin Bačk	-	. Pavol Márto	onfi, PhD., pi	of. RNDr. M	Iiroslav Repõ	čák, DrSc., p	rof. RNDr.

University: P. J. Š	Safárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE BFR/14	V/ Course na	me: Botany and	Plant Physiolog	У	
Course type, scop Course type: Recommended Per week: Per s Course method	course-load (he study period: : present				
Number of ECTS	S credits: 4				
Recommended so	emester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	ies:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	•				
Notes:					
Course assessme Total number of a		ts: 20			
A	В	С	D	E	FX
45.0	20.0	25.0	5.0	5.0	0.0
Provides:	<u> </u>				
Date of last modi	fication: 03.05	.2015			
Approved: prof. 1 Martin Bačkor, Di		ártonfi, PhD., pr	of. RNDr. Miros	slav Repčák, DrSo	c., prof. RNDr.

University: P. J. Šaf	ărik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: KFaDF/ KDF/05		me: Chapters fro General Introdu		hilosophy of 19th	and 20th
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: p	ice 1rse-load (ho udy period: 2	ours):			
Number of ECTS c	redits: 2				
Recommended sem	ester/trimest	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cou	se completio	on:			
Learning outcomes	•				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed student	s: 10			
A	В	С	D	E	FX
50.0	20.0	10.0	0.0	10.0	10.0
Provides: doc. PhDr	. Pavol Tholt	, PhD., mim. pr	of.		
Date of last modific	ation: 03.05.	2015			
Date of last modific Approved: prof. RN Martin Bačkor, DrSo	Dr. Pavol Ma		of. RNDr. Miros	slav Repčák, DrSo	c., prof. RND

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sc	ience					
Course ID: CRO1/03	ÚBEV/	Course name	: Chronophy	siology			
Course ty Recomme Per week:	pe: Lecture nded cours	se-load (hours tudy period:	s):				
Number of	ECTS cre	dits: 5					
Recommen	ded semes	ter/trimester	of the cours	e:			
Course leve	el: II., III.						
Prerequisit	ies:						
Conditions Oral exami		completion:					
Learning o To outline in evolution	the problem	natics of the tip organisms	me organisat	ion of biolo	gical processo	es and their	significance
biological a genetic bas of biologic	ture of phy rhythms. Tl is and mole al rhythms.	vsiological var ne significance cular mechani The multiosc for the anima	e of biologic sms of biolog illatory syste	al rhythms i gical clocks m of the org	in the evolution in animals. The spanism. The spanism.	on of living ne endogeno ignificance	things. The us character of circadiar
Recommen	ded literat	ure:					
Course lan	guage:						
Notes:							
Course assessment Total number of assessed students: 88							
А	В	С	D	Е	FX	Ν	Р
21.59	21.59	29.55	11.36	4.55	1.14	0.0	10.23
Provides: p	orof. RNDr.	Beňadik Šma	jda, CSc., RI	NDr. Natália	Pipová, PhD		
Date of last	t modificat	ion: 03.05.20	15				
Approved: Martin Bač	1	r. Pavol Márto	onfi, PhD., pr	of. RNDr. N	/iroslav Repč	ák, DrSc., p	rof. RNDr.

University: P. J. Šafár	ik Univers	ity in Košice		
Faculty: Faculty of So	cience			
Course ID: KPPaPZ/KK/07	Course name: Communication and Cooperation			
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pres	e se-load (h ly period:	ours):		
Number of ECTS cre	edits: 2			
Recommended semes	ster/trimes	ster of the course: 3.		
Course level: II.				
Prerequisities:				
Conditions for course	e completi	on:		
Learning outcomes:				
Brief outline of the co	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of asses	sed studen	ts: 281		
abs		n	Z	
98.22		1.78	0.0	
Provides: Mgr. Ondre	j Kalina, P	hD., Mgr. Lucia Hricová, PhD.		
Date of last modificat	tion: 04.09	0.2019		
Approved: prof. RND Martin Bačkor, DrSc.	Pr. Pavol M	lártonfi, PhD., prof. RNDr. Miro	slav Repčák, DrSc., prof. RNDr.	

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science	Faculty: Faculty of Science						
Course ID: ÚBEV/ Course name: Cytogenetics CK1/03	D: ÚBEV/ Course name: Cytogenetics and Karyology						
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 credits: 4							
Recommended semester/trimester of the course:							
Course level: II., III.							
Prerequisities:							
Conditions for course completion: written tests, protocols, oral examination							
Learning outcomes: To gain knowledge and experience in genetic proce findings of cytogenetics and moleculoar cytology comming from human genome mapping.			-				
Brief outline of the course: Organisation of eukaryotic genome. Nuclear skele structure and changes of chromatin. Levels of DN Polythene chromosomes. Cell cycle. Genetic reg cell differentiation. Apoptosis. Telomeres and fun- characteristics of the Human genom project - what	A organisa gulation of ction of tel	ation in cell r a cell cycle omerase. Mo	nucleus. Chr Genetic re	comosomes. egulation of			
Recommended literature: Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992 Periodicals Internet sources							
Course language:							
Notes:							
Course assessment Total number of assessed students: 1289							
A B C D	Е	FX	Ν	Р			
24.9 14.58 15.67 14.58	17.61	11.71	0.0	0.93			
Provides: prof. RNDr. Eva Čellárová, DrSc., RND	r. Katarína	Bruňáková, l	PhD.				
Date of last modification: 03.05.2015							

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

Faculty: Faculty Course ID: ÚBE						
Course ID. I'IDE	of Science					
Course ID: UBE DNR/06	EV/ Course name: Dendrology					
Course type, sco Course type: La Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (he Per study perio	ours):				
Number of ECT	S credits: 5					
Recommended s	emester/trimes	ter of the cour	se:			
Course level: II.						
Prerequisities:						
Conditions for c	ourse completi	on:				
Learning outcor	nes:					
Morphological s distribution. Intra Selected chapters Application of w urban environme occurrence, meas expansion and in	aspecific variabits s from seed proceed roody plants in gent. Protected an sures of protection vasion of wood	lity, growth for duction and tree garden and lands d memorial tree on and treating.	ms and their use nursery of woo scape architectures, databasis of	dy plants. re in		
Recommended l						
Course language	.					
Notes:						
Course assessme Total number of		ts: 60				
	B	C	D	E	FX	
Α		0.00				
A 65.0	16.67	8.33	10.0	0.0	0.0	
					0.0	

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚBEV/ SDPa/15					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	r se-load (hours): l y period: esent				
Number of ECTS cr					
Recommended seme	ster/trimester of the cours	e: 1			
Course level: II.					
Prerequisities:					
Conditions for cours	Conditions for course completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 180				
	abs n				
	100.0 0.0				
Provides:	Provides:				
Date of last modifica	tion: 03.05.2015				
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ SDPb/15	1				
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: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	Conditions for course completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	Course assessment Total number of assessed students: 131				
	abs n				
	100.0 0.0				
Provides:	Provides:				
Date of last modifica	Date of last modification: 03.05.2015				
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.					

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ SDPc/15	Course name: Diploma Th	esis Seminar
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e: 3.
Course level: II.		
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: 137	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 03.05.2015	
Approved: prof. RNI Martin Bačkor, DrSc.	Dr. Pavol Mártonfi, PhD., pr	of. RNDr. Miroslav Repčák, DrSc., prof. RNDr.

University: P. J. Šaf	ärik Universi	ty in Košice				
Faculty: Faculty of	Science					
Course ID: ÚBEV/ SDPd/15	V/ Course name: Diploma Thesis Seminar					
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (ho dy period:					
Number of ECTS c	redits: 4					
Recommended sem	ester/trimest	ter of the cours	e: 4.			
Course level: II.						
Prerequisities:						
Conditions for cour	se completio	on:				
Learning outcomes	:					
Brief outline of the	course:					
Recommended liter	ature:					
Course language:						
Notes:				_		
Course assessment Total number of ass	essed student	s: 133				
А	В	С	D	Е	FX	
87.97	6.77	3.01	0.75	1.5	0.0	
Provides:			·			
Date of last modific	ation: 03.05.	2015				
Approved: prof. RN Martin Bačkor, DrSc		ártonfi, PhD., pi	of. RNDr. Miros	lav Repčák, DrSo	e., prof. RNDr.	

University: P. J. Š	afárik Univers	ity in Košice				
Faculty: Faculty of	of Science					
Course ID: ÚBEV DPO/14	EV/ Course name: Diploma Thesis and its Defence					
Course type, scop Course type: Recommended o Per week: Per s Course method:	course-load (h tudy period:					
Number of ECTS	6 credits: 20					
Recommended se	emester/trimes	ter of the cours	e:			
Course level: II.						
Prerequisities:						
Conditions for co	urse completi	on:				
Learning outcom	es:					
Brief outline of th	ne course:					
Recommended li	terature:					
Course language:						
Notes:						
Course assessme Total number of a		ts: 172				
A	В	С	D	Е	FX	
57.56	26.74	9.88	3.49	2.33	0.0	
Provides:				·4		
Date of last modi	fication: 03.05	.2015				
Approved: prof. I Martin Bačkor, Dr		ártonfi, PhD., pr	of. RNDr. Miros	lav Repčák, DrSo	c., prof. RNDr.	

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ ETO1/03	Course na	me: Ethology			
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ture / Practice ourse-load (h er study perio	ours):			
Number of ECTS	credits: 6				
Recommended sen	nester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou Recognition. Written examinatio	•	on:			
Learning outcome To teach the stude biological sciences		and to be aware	of the importa	ance of the behav	ioural aspect in
Brief outline of the History and develo simplest forms of Social behaviour. S animal migrations. behaviour. Abnorm	opment of eth learning – co Sexual behavi Communicati	onditioning and our. Play behavio on systems of ani	instrumental le our. Biological	arning. Higher fo rhythms. Orientati	rm of learning, on in space and
Recommended lite Franck, D.: Verhalt Manning, A., Dawl 1992	ensbiologie. I	U	•		
Course language:					
Notes:					
Course assessment Total number of as		ts: 972			
A	В	С	D	E	FX
39.71	24.9	25.31	8.23	1.75	0.1
Provides: RNDr. Ig	gor Majláth, P	'nD.			
Date of last modifi	cation: 03.05	5.2015			
Approved: prof. R Martin Bačkor, DrS		ártonfi, PhD., pr	of. RNDr. Mirc	oslav Repčák, DrS	c., prof. RNDr.

Faculty: Faculty o					
			D: 1		
Course ID: ÚBEV EB1/99	Course na	ame: Evolutiona	ry Biology		
Course type, scop Course type: Lec Recommended c Per week: 2 Per Course method:	cture ourse-load (h study period:	ours):			
Number of ECTS	credits: 3				
Recommended se	mester/trimes	ster of the cours	se: 3.		
Course level: II.					
Prerequisities:					
Conditions for co written test	urse completi	on:			
Learning outcome To understand the views on the origin	fundamentals	•			
Historical overvie population waves	w of evolution, and isolatior	n. Natural select	tion. Molecular e	evolution. Adapta	tions and their
Historical overvie	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid	n. Natural select es. Macroevolutio nimals. Evolutio n of plants. Repr dy. Reproductive	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
Historical overvier population waves classification. Con of onthogeny. Phy Primary and secon introgression of pl Recommended lit	w of evolution , and isolation ncept of specie ylogeny of an dary speciation ants. Polyploi erature: volutionary bi	n. Natural select es. Macroevolution imals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
population waves, classification. Cor of onthogeny. Phy Primary and secon introgression of pl Recommended lit Futuyama, D.J.: E	w of evolution , and isolation ncept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevolution imals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
Historical overvier population waves classification. Corr of onthogeny. Phy Primary and secon introgression of pl Recommended lit Futuyama, D.J.: E Dobzhansky T. et Course language:	w of evolution , and isolation ncept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevolution imals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
Historical overvie population waves classification. Cor of onthogeny. Phy Primary and secon introgression of pl Recommended lit Futuyama, D.J.: E Dobzhansky T. et Course language: Notes:	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevoluti nimals. Evolutio n of plants. Repr dy. Reproductive ology, Sinauer A San Francisco	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
Historical overvier population waves, classification. Corr of onthogeny. Phy Primary and second introgression of pl Recommended litt Futuyama, D.J.: E Dobzhansky T. et Course language: Notes: Course assessment	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevoluti nimals. Evolutio n of plants. Repr dy. Reproductive ology, Sinauer A San Francisco	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts.	tions and thei gans, evolution Plant diversity bridisation and
Historical overvier population waves classification. Cor of onthogeny. Phy Primary and secon introgression of pl Recommended lit Futuyama, D.J.: E Dobzhansky T. et Course language: Notes: Course assessmen Total number of as	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevolution imals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A San Francisco	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde 1977.	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts. rland, 3rd ed., 19	tions and their gans, evolution Plant diversity bridisation and 97.
Historical overvier population waves, classification. Corr of onthogeny. Phy Primary and second introgression of pl Recommended litt Futuyama, D.J.: E Dobzhansky T. et Course language: Notes: Course assessment Total number of ast A 11.05 Provides: prof. RN	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution.	n. Natural select es. Macroevolution imals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A San Francisco ts: 561 C 24.06	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde 1977. D 25.13	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts. rland, 3rd ed., 19 E 14.08	tions and thei gans, evolution Plant diversity ybridisation and 97. 97. FX 1.78
Historical overvier population waves classification. Cor of onthogeny. Phy Primary and secon introgression of pl Recommended lit Futuyama, D.J.: E Dobzhansky T. et Course language: Notes: Course assessmen Total number of as A	w of evolution , and isolation neept of specie ylogeny of an dary speciation ants. Polyploid erature: volutionary bi al.: Evolution. t ssessed studen B 23.89 NDr. Pavol Má	n. Natural select es. Macroevoluti nimals. Evolution n of plants. Repr dy. Reproductive ology, Sinauer A San Francisco 1 ts: 561 C 24.06 artonfi, PhD., pro	tion. Molecular e ion. Evolution of nary progress. A oduction-isolation e systems in plan Associates, Sunde 1977. D 25.13	evolution. Adapta functions and or nthropogenesis. n mechanisms. Hy ts. rland, 3rd ed., 19 E 14.08	tions and thei gans, evolution Plant diversity ybridisation and 97. 97. FX 1.78

University: P J Šafá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚBEV/ FG/14	Course name: Functional genomics
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course: 2.
Course level: II., III.	
Prerequisities:	
Conditions for cours Active participation i	e completion: n practical and theoretical courses
genes, RNA transcrip genome-wide approa a more traditional "g the approaches and n as in practice. Brief outline of the c • Introduction to funct • Genome and functi input of genome sequ • Genome-wide rever use in functional gen • Transcriptomics: m • Proteomics: methor analysis, data mining • Metabolomics: metodata analysis, data m * Interactomics - pro	etional genomics onal genomics: sequenced model organisms, conceptual and methodological iencing, structural vs. functional genome annotation se genetics: techniques to create collections of genome-wide mutants and their omics ethods to obtain transcriptome data, data analysis, data mining ods to obtain proteome data, quantitative vs. qualitative proteomics, data hods to obtain metabolomic data, quantitative vs. qualitative metabolomics,
 Biological database A real-case applicat 	s and other resources for functional genome analysis tions of the functional genomics
Recommended litera Internet sources, Pow	
Course language: English	
Notes:	

Course assessment Total number of assessed students: 91								
А	В	С	D	Е	FX	Ν	Р	
25.27	25.27	25.27	6.59	12.09	2.2	0.0	3.3	

Provides: RNDr. Andrea Schreiberová, PhD., RNDr. Katarína Bruňáková, PhD., RNDr. Miroslav Soták, PhD., RNDr. Katarína Nigutová, PhD., RNDr. Andrea Kimáková, PhD., RNDr. Linda Petijová, PhD.

Date of last modification: 06.03.2019

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University: P. J. Šaf	ärik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ GB1/03	Course na	me: Geobotany			
Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Pe Course method: p	ure / Practice urse-load (ho r study perio	ours):			
Number of ECTS c	redits: 4				
Recommended sem	ester/trimest	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	rature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed student	s: 53			
Α	В	С	D	Е	FX
47.17	22.64	16.98	7.55	5.66	0.0
Provides: doc. RND	Dr. Sergej Mod	chnacký, CSc.		·	
Date of last modific	cation: 21.02.	2019			
Approved: prof. RN Martin Bačkor, DrSo		ártonfi, PhD., pr	of. RNDr. Miros	lav Repčák, DrSc	e., prof. RNDr.

	Šafárik Universit	,					
Faculty: Faculty	of Science						
Course ID: ÚBE LR1/03	EV/ Course nan	Course name: Healing Plants					
Course type: L Recommended	course-load (hourse-load (hourse-load) r study period: 2	ırs):					
Number of ECT	'S credits: 3			-			
Recommended s	semester/trimeste	er of the cours	e:				
Course level: I.,	II.						
Prerequisities:							
Conditions for c	ourse completion	1:					
Learning outcor To provide the st	nes: tudents with heali	ng principles o	f plants and proc	luction of drug.			
Overview of sele Hypericaceae, R Caprifoliaceae, A Recommended I	cted representativ Rosaceae, Malvac Apiaceae, Valeriar	es of medicinal eae, Ericaceae naceae, Asterac	l plants of the fam , Scrophulariace	gy of Medicinal nilies Papaveracea eae, Plantaginace ae, Ginkgoaceae.	ae, Droseraceae ae, Lamiaceae		
Course language	e:						
-ourse iniguage							
Notes: Course assessme	ent assessed students	: 381					
Notes: Course assessme		: 381 C	D	E	FX		
Notes: Course assessme Total number of	assessed students		D 11.55	E 9.19	FX 8.4		
Notes: Course assessme Total number of A 23.88	assessed students B	C 21.0					
Notes: Course assessme Total number of A 23.88 Provides: prof. F	assessed students B 25.98	C 21.0 epčák, DrSc.					

University: P. J. Šafa	árik Univers	ity in Košice				
Faculty: Faculty of S	Science					
Course ID: KFaDF/ DF2p/03	Course name: History of Philosophy 2 (General Introduction)					
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice Irse-load (he study perio	ours):				
Number of ECTS ci	redits: 4					
Recommended sem	ester/trimes	ter of the cours	e:			
Course level: I., II.						
Prerequisities:						
Conditions for cour	se completi	on:				
Learning outcomes:						
Brief outline of the	course:					
Recommended liter	ature:					
Course language:						
Notes:	_					
Course assessment Total number of asse	essed studen	ts: 739				
А	В	С	D	E	FX	
60.89	13.8	12.58	8.66	3.38	0.68	
Provides: doc. PhDr. Katarína Mayerová, J		· · ·		Peter Nezník, CSo	c., PhDr.	
Date of last modific	ation: 25.03	.2020				
Approved: prof. RN Martin Bačkor, DrSc		ártonfi, PhD., pr	of. RNDr. Miros	lav Repčák, DrS	c., prof. RND	

University: P. J. Ša	fárik Universit	y in Košice					
Faculty: Faculty of	Science						
Course ID: KFaDF IH2/03	DF/ Course name: Idea Humanitas 2 (General Introduction)						
Course type, scope Course type: Prac Recommended co Per week: 2 Per st Course method: p	tice urse-load (ho tudy period: 2	urs):					
Number of ECTS of	credits: 2						
Recommended sem	nester/trimest	er of the cours	se: 3.				
Course level: II.							
Prerequisities:							
Conditions for cou	rse completio	n:					
Learning outcomes	5:						
Brief outline of the	course:						
Recommended lite	rature:						
Course language:							
Notes:							
Course assessment Total number of ass		:: 8					
A	В	С	D	Е	FX		
87.5	12.5	0.0	0.0	0.0	0.0		
Provides: Doc. PhD	Dr. Peter Nezní	k, CSc.	·	·			
Date of last modified	cation: 12.02.2	2020					
Approved: prof. RN Martin Bačkor, DrS		rtonfi, PhD., p	rof. RNDr. Miros	lav Repčák, DrSo	e., prof. RNDr.		

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI IMU1/03	EV/ Course na	ame: Immunolog	ЗУ		
	Lecture l course-load (h er study period:	ours):			
Number of ECT	FS credits: 3				
Recommended	semester/trimes	ster of the cours	se: 1.		
Course level: II					
Prerequisities:					
Conditions for o Recognition. Oral examinatio	ľ	on:			
the role and im lessons is the pr	roduces the stud aportance of impresentation of the	munology in va e organization a	rious human dis	nmunology as we seases. The aim he immune system during the induc	of Immunology n, as well as the
Responses of Int Recognition by Clinical immun Tumor Immuno	ogy: Lymphatic nate Immunity, T B-cell and T-cell ology: Allergy a logy, Disorders o	The Adaptive Imr Receptors, Anti and other Hyper	nune Response, A gen Presentation sensitivities, Au	Immune System Antigens and Ant to T-lymphocyte toimmunity and	ibodies, Antigen es, Complement,
Murphy, K. (20	, Travers P., Wal 12): Jeneway's In	mmunobiology.	chik M.: Immun 8th ed. Garland S 10logy 12th ed W		d Science, 2004
Course languag	ge:				
Notes:					
Course assessm Total number of	ent assessed studen	ts: 903			
А	В	С	D	Е	FX
38.54	24.47	24.81	7.09	1.88	3.21
Provides: RND	. Vlasta Demečk	ková, PhD.		·	,
Date of last mo					

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚB UGM1/03	EV/ Course na	me: Introductio	n to Gene Mani	ipulations	
Course type: I Recommended	ope and the met Lecture / Practice l course-load (h 2 Per study perio d: present	ours):			
Number of EC	FS credits: 6				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II					
Prerequisities:					
Conditions for Oral examination	course completi on.	on:			
Learning outco To provide the recombinant DN	students with	the principles o	f preparation a	and application o	of techniques of
used for DNA recombinant D	eic acids. Restric nanipulation. La NA. Recombinan	beling of DNA. t vectors. Selecti	Nucleic acid h on markers. Tr	nd ligation of DNA hybridization. PCR ansfer of recombines in E. coli. DNA	R. Preparation of nant DNA to the
Engineering. Bl	rose, S. B.: Prind ackwell Scientifies, M and Reichs	c Publication, L	ondon, 1992	An Introduction t gy. Academic Pres	
Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 242			
А	В	С	D	Е	FX
60.74	27.27	8.68	2.48	0.41	0.41
Provides: RND	r. Mariana Koles	árová, PhD., Ing	. Ľudmila Ham	arová, PhD.	
Date of last mo	dification: 07.10	0.2015			
Approved: prof Martin Bačkor, 1		lártonfi, PhD., pi	of. RNDr. Mirc	oslav Repčák, DrS	Sc., prof. RNDr.

University: P. J.	Šafárik Universit	y in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI MVR/03	EV/ Course nar	ne: Mineral Nut	rition		
Course type: L Recommended	ope and the meth Lecture / Practice l course-load (ho l Per study period l: present	urs):			
Number of ECT	S credits: 6				
Recommended	semester/trimest	er of the course	: 1.		
Course level: II.					
Prerequisities:					
Conditions for a	course completio	n:			
nutrients in plan Brief outline of Soil environmer	wledge about pla ts.	n plant growth a	nd developmen	t. Nutrient uptake	e by plant roots
Recommended Marschner H.: M	Aineral Nutrition	of Higher Plants	. 2nd ed. Acade	emic Press, Londo	on 1995.
Course languag	e:				
Notes:	,				
Course assessm		5: 55			
Total number of	assessed students				
	B	С	D	E	FX
Total number of		C 18.18	D 0.0	E 1.82	FX 1.82
Total number of A 49.09	В	18.18			
Total number of A 49.09 Provides: doc. F	B 29.09	18.18 /e-Balang, PhD.			

University: P. J. Šaf	ärik Universit	y in Košice			
Faculty: Faculty of	Science				
Course ID: Dek. PF UPJŠ/PPZ/13	Course nar on a Labour		Development ar	nd Key Competen	ces for Success
Course type, scope Course type: Pract Recommended co Per week: Per stu Course method: p	tice urse-load (ho idy period: 14	urs):			
Number of ECTS c	redits: 2				
Recommended sem	ester/trimest	er of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	n:			
Learning outcomes	•				
Brief outline of the	course:				
Recommended liter	rature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed students	s: 39			
A	В	С	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr. Pe	ter Stefányi, I	hD.			
Date of last modific	cation: 03.05.	2015			
Approved: prof. RN Martin Bačkor, DrSo		rtonfi, PhD., p	rof. RNDr. Miros	slav Repčák, DrSo	c., prof. RNDr.

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚB FRV1/03	EV/ Course na	me: Physiology	of Plant Growth	and Developme	nt
Recommended	Lecture / Practice l course-load (h 2 Per study perio	ours):			
Number of ECT	FS credits: 6				
Recommended	semester/trimes	ter of the cours	e: 2.		
Course level: II					
Prerequisities:					
Conditions for	course completi	on:			
Learning outco To learn about b		d approaches in j	physiology of pla	ant growth and d	evelopment
ecological func dormancy. Regu phototropism, g Recommended	tions, molecular alation of floweri ravitropism and a literature:	mechanisms. B ng. Senescence a nastic movement	lue-light respon and programmed ts. Stress physiol		Germination and
, 0	E., Plant physiolo	ogy. Fifth edition	i. Sinauer ass., S	underland 2010	
Course languag	je:				
Notes: Course assessm Total number of	ent assessed studen	ts: 104			
А	В	С	D	Е	FX
36.54	21.15	17.31	13.46	8.65	2.88
Provides: prof. Gregorek	RNDr. Miroslav	Repčák, DrSc., N	Mgr. Silvia Gajdo	ošová, Ph.D., Ing	g. Robert
Date of last mo	dification: 03.05	.2015			
Approved: prof Martin Bačkor, I		ártonfi, PhD., pr	of. RNDr. Miros	slav Repčák, DrS	c., prof. RNDr.

	Safárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE FG1/03	EV/ Course na	ame: Phytogeog	raphy		
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study peri	e iours):			
Number of ECT	S credits: 5				
Recommended s	semester/trime	ster of the cours	se:		
Course level: I.,	II.				
Prerequisities:					
Conditions for c Written work. Exam.	course complet	ion:			
Learning outcom To obtain theore		cal knowledge fr	om phytogeogra	phy.	
ages. Postglacia geography: from Geographical or	l evolution of S n tropical rainf igin of cultivate works. Preparin	Slovak vegetation orests to tundra d plants. ng of maps. Ph	n. Regional phy s. Changes of o	esis since paleozo togeography of E earth vegetation a l division of Slo	arth. Vegetation and their study
Recommended Hendrych R.: Fy Brown J. H., Lo	togeografie S	· · · · · · · · · · · · · · · · · · ·		es, Sunderland, 19	998.
Course languag	e:				
Notes:					
Course assessm		nts: 355			
Total number of		C	D	Е	,
	В	e			FX
Total number of	B 22.25	21.69	8.17	8.17	FX 0.85
Total number of A 38.87	22.25	21.69	8.17	8.17	
Total number of A	22.25 RNDr. Pavol Má	21.69 ártonfi, PhD., Mg	8.17	8.17	

University	: P. J. Šafár	ik University i	n Košice				
Faculty: Fa	culty of So	cience					
Course ID BTR1/06	ÚBEV/	Course name:	Plant Biote	echnology			
Course ty Recomme Per week:	pe: Lecturended cour	nd the method e / Practice see-load (hours study period: 2 sent	s):				
Number of	ECTS cre	edits: 6					
Recommer	ded semes	ster/trimester	of the cour	se:			
Course lev	el: I., II., II	II.					
Prerequisi	ties:						
	ticipation a	e completion: t the practicals	, written tes	t, protocols,			
Learning o To gain the		d practical kno	wledge on j	plant tissue cu	ulture in vitro		
embryoids research an	and organ d praxis. C	culture. Genet s cultured in ryopreservation nts and express	vitro under n of plant ce	sterile cond lls and tissues	itions. Use a	of the tissue	culture in
	t al.: Plant E d.): An In	Biotechnology. troduction to N		•	· 1.	L	601 pp.
Course lan	guage:						
Notes:							
Course ass Total numb		sed students: 1	59				
А	В	C	D	Е	FX	Ν	Р
38.99	19.5	13.84	8.81	11.32	3.14	0.0	4.4
Provides: p Vranová, P		. Eva Čellárová	i, DrSc., RN	IDr. Katarína	Nigutová, Pł	nD., doc. RN	Dr. Eva
Date of las	t modifica	tion: 06.03.201	9				
Approved: Martin Bač	-	Dr. Pavol Márto	nfi, PhD., p	orof. RNDr. M	liroslav Repč	ák, DrSc., pi	rof. RNDr.

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚB EKR1/03	EV/ Course na	me: Plant Ecolo	gy		
Recommended Per week: 2 / 2 Course method	Lecture / Practice I course-load (h 2 Per study perio d: present	ours):			
Number of EC					
Recommended	semester/trimes	ster of the cours	e: 2.		
Course level: II					
Prerequisities:					
Conditions for	course completi	on:			
Learning outco Introduction to					
between individ	of plant integrat uals and populati		the populations.	of plant populatic Interactions betwee systems.	
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studen	ts: 247			
А	В	С	D	E	FX
72.87	17.0	6.07	2.43	1.62	0.0
Provides: prof.	RNDr. Martin Ba	ačkor, DrSc.			-
Date of last mo	dification: 03.05	5.2015			
Approved: prof Martin Bačkor, I		lártonfi, PhD., pr	of. RNDr. Miros	slav Repčák, DrSo	c., prof. RNDr.

University: P. J. S	Safárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE ER1/01	V/ Course na	me: Plant Embr	yology		
Course type, scop Course type: Le Recommended Per week: 1 / 1 1 Course method:	cture / Practice course-load (h Per study perio	ours):			
Number of ECTS	S credits: 3				
Recommended so	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for co Oral examination	-	on:			
Learning outcom To provide the stu		general principle	es of embryoge	nesis of the seed p	plants
Microsporogenes fertilization. Dou	is. Pollen graible fertilization	n. Generative a . Endosperm. En	nd tube nucle nbryogenesis (1	Development of ma rus. Pollen tube. nono- and dicotyl nixis. Developmer	Pollination and edonous plants).
Heidelberg. Rave and Company, No	4)Plant embryol n, P.H., Evert, I ew York	•••••••		ms. Springer-Verl Biology of Plants.	-
Course language	:				
Notes:					
Course assessme Total number of a	-	ts: 125			
A	В	С	D	Е	FX
46.4	28.8	14.4	6.4	4.0	0.0
Provides: prof. R	NDr. Pavol Má	rtonfi, PhD., RN	Dr. Lenka Mar	tonfiová	
Date of last modi	fication: 03.05	5.2015			
Approved: prof. 1 Martin Bačkor, D		lártonfi, PhD., pr	of. RNDr. Mire	oslav Repčák, DrS	sc., prof. RNDr.

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE MR1/03	V/ Course na	ame: Plant Metal	oolism		
Course type, sco Course type: La Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study peri	e iours):			
Number of ECT	S credits: 6				
Recommended s	emester/trime	ster of the cours	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for c Examen	ourse complet	ion:			
Learning outcom To provide the s secondary metab	students with p	oathways of bios	ynthesis in pla	nt and functions	of primary and
plants. Synthesi transport and AT Nitrogen metabo assimilation and	s of starch ar P synthesis. Lip lism: fixation, metabolism. Te	nd sucrose. Resp bid biosynthesis a nitrate assimilation rpenes: biosynthe	piration: glycol nd convertion in on, ammonium of esis and function	photorespiration. ysis, citric acid nto carbohydrates. conversion to ami s. Phenolic compo ds. Mechanisms o	cycle, electron Polyacetylenes. no acids. Sulfur punds: pathways
Recommended l	iterature: otosynthesis. T	hird edition. BIC	S, Oxford 2001	; Taiz L., Zeiger I	
Course language	2:				
Notes:					
Course assessme Total number of		nts: 107			
А	В	С	D	E	FX
26.17	15.89	18.69	16.82	19.63	2.8
Provides: prof. R	NDr. Miroslav	Repčák, DrSc., o	loc. RNDr. Pete	r Pal'ove-Balang,	PhD.
Date of last mod	ification: 21.02	2.2019			
Approved: prof. Martin Bačkor, D		lártonfi, PhD., pr	of. RNDr. Miro	slav Repčák, DrS	c., prof. RNDr.

University: P. J. Šaf	ärik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ IOR/09	Course na	me: Plant Prote	ction		
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	are / Practice arse-load (h r study perio	ours):			
Number of ECTS c	redits: 4				
Recommended sem	ester/trimes	ster of the cours	e:		
Course level: I., II.					
Prerequisities: ÚBE	EV/VEK1/03				
Conditions for cour	·se completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 47			
А	В	С	D	Е	FX
4.26	27.66	25.53	17.02	25.53	0.0
Provides: prof. RNI	Dr. Martin Ba	ačkor, DrSc., Ing	. Martin Suvák, l	PhD.	
Date of last modific	ation: 03.05	5.2015			
Approved: prof. RN Martin Bačkor, DrSc		lártonfi, PhD., pr	rof. RNDr. Miros	lav Repčák, DrSc	., prof. RNDr.

University: P.	J. Safar	ik Univers	sity in Košice			
Faculty: Facul	ty of So	cience				
Course ID: Ú TR1/99	BEV/	Course na	ame: Plant Taxo	nomy		
Course type, s Course type: Recommend Per week: 2 Course meth	Lecture ed cour 2 Per s	e / Practice se-load (h study peri	e iours):			
Number of E(CTS cre	edits: 5				
Recommende	d semes	ster/trime	ster of the cour	se: 1.		
Course level:	[I.					
Prerequisities						
Conditions fo Information of Exam.		-				
Learning outor To learn about		nethods an	nd approaches in	plant taxonomy.		
data. Variation utilization in phylogeny of	n in pla taxonor tracheop ns, prim	nts and th ny. Molec phytes acc ary and sec	neir study. Nume cular data as im cording to the ne condary speciation	erical taxonomy portant data of west data. Evolu	e of informationa (phenetics). Clac recent systematic ation in population anical nomenclatu	distics and their es. Overview of ns, principles of
2001. Stuessy T. F.: Judd W. S., Ca Phylogenetic A	lters S. Plant Ta Impbell Approac al. (Eds	M.: Promè axonomy Ch. S., Ke ch, 2nd ed.	- New York, Oxf ellogg E. A., Ste Sinauer Assoc	ford 1990. evens P. F., Donog ciates, Sunderlan	erzita Palackého, ghue M. J.: Plant d, 2002. ttúry (Saint Louis	Systematics. A
Course langua	ige:					
Notes:						
Course assess Total number		sed studer	nts: 122			
А		В	C	D	Е	FX
40.16	+			+		ł
40.10	2	20.49	18.85	10.66	6.56	3.28

Date of last modification: 03.05.2015

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University: P. J.	Šafárik Univers	sity in Košice						
Faculty: Faculty	y of Science							
Course ID: ÚB STFR/09	Course ID: ÚBEV/ Course name: Plant stress physiology STFR/09							
Recommended	Lecture / Practice I course-load (h 2 Per study peri	e ours):						
Number of EC	FS credits: 3							
Recommended	semester/trime	ster of the course	2:					
Course level: II	•							
Prerequisities:								
Conditions for	course completi	ion:						
	roduce basic pla	ant stress conditionnce mechanisms.	ons to the stude	ents and elucidate	e phytohormonal			
Plant stress read salicylic acid, a to stress respon perception, its p developmental n	ctions – synthesi bscisic acid, NC nse. Examples rocessing and su reaction to the st	s of plant hormon and others), pro of known plant bsequent physiolo ress condition.	nes (auxins, cy oteins, metabol stress signallir ogical changes l	ress reactions in l tokinins, ethylene ites and other con ng cascades start leading to execution tions, their analys	e, jasmonic acid, mpounds related ing from signal on of growth and			
, 0	E, Plant physiolo	gy. 4th editon. Sii ley-Blackwell, 20	· · · · · · · · · · · · · · · · · · ·	derland 2006.				
Course languag								
Notes:								
Course assessm Total number of	ent fassessed studen	its: 14						
А	В	C	D	Е	FX			
64.29	14.29	14.29	0.0	0.0	7.14			
Provides: Mgr.	Silvia Gajdošova	á, Ph.D.		1	1			
Date of last mo	dification: 03.05	5.2015						
Approved: prof Martin Bačkor, l		lártonfi, PhD., pro	of. RNDr. Mirc	oslav Repčák, DrS	sc., prof. RNDr.			

University: P. J. Š	Safárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPPaPZ/PPZMg/		me: Psychology	and Health Psyc	chology (Master's	s Study)
Course type, scop Course type: Le Recommended o Per week: 1 / 2 I Course method:	cture / Practice course-load (h Per study peri	ours):			
Number of ECTS	S credits: 4				
Recommended se	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	ies:				
Brief outline of tl	he course:				
Recommended li	terature:				
Course language	:				
Notes:					
Course assessme Total number of a	-	ts: 226			
A	В	С	D	Е	FX
19.47	25.22	25.66	13.27	15.93	0.44
Provides: PhDr. A	Anna Janovská,	PhD., Mgr. Luc	ia Hricová, PhD.	·	
Date of last modi	fication: 07.03	3.2018			
Approved: prof. I Martin Bačkor, Di		lártonfi, PhD., pr	of. RNDr. Miros	lav Repčák, DrSo	e., prof. RNDr.

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: ÚTVŠ/ Course name: Seasio	le Aerobic	Exercise				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present						
Number of ECTS credits: 2						
Recommended semester/trimester of the	course:					
Course level: I., II.						
Prerequisities:						
Conditions for course completion: Conditions for course completion: Attendance						
conditions actively and their skills in wor	k and com in organisir	ties how to spend leisure time in seaside munication with clients will be improved. In the cultural and art-oriented events, with riences for visitors.				
(children, young people, elderly) 8. Application of seaside cultural and art-or	nding of lei	sure time for different age and social groups vities in leisure time				
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 42						
abs		n				

Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.

Date of last modification: 15.03.2019

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University: P. J. Š	afárik Universi	ty in Košice					
Faculty: Faculty o	of Science						
Course ID: ÚBEV SFR/04	V/ Course name: Seminar from Plant Physiology						
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	nctice course-load (ho study period: 2	ours):					
Number of ECTS	credits: 2						
Recommended se	mester/trimest	er of the cours	se:				
Course level: II.							
Prerequisities:							
Conditions for co	urse completio	n:					
Learning outcom Literature search scientific results.	training, interp		-		pility to presen		
Brief outline of th Metodology, etics for full access to impact factor). Pre-	and legal aspects scientific journation	als. Scientific i	mportance of pu	blications (CC ar	,		
Recommended lit	terature:						
Course language:							
Notes:							
Course assessmer Total number of a		s: 25					
A	В	С	D	E	FX		
80.0	20.0	0.0	0.0	0.0	0.0		
Provides: Mgr. Sil	lvia Gajdošová,	Ph.D.	<u>.</u>				
Date of last modif	fication: 03.05.	2015					
Approved: prof. F Martin Bačkor, Dr		artonfi, PhD., p	rof. RNDr. Miro	slav Repčák, DrS	c., prof. RNDr.		

University: P. J. Šafá	rik University in	Košice					
Faculty: Faculty of S	cience						
Course ID: KPPaPZ/SPVKE/07	Course name: Situations	Course name: Social-Psychological Training of Coping with Critical Life Situations					
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce r se-load (hours) dy period: 28						
Number of ECTS cr	edits: 2						
Recommended seme	ster/trimester o	f the course: 2.					
Course level: II.							
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: 12	26					
abs		n	Z				
97.62		2.38	0.0				
Provides: Mgr. Ondro	ej Kalina, PhD.						
Date of last modifica	tion: 18.03.201	9					
Approved: prof. RNI Martin Bačkor, DrSc.	Dr. Pavol Mártor	ıfi, PhD., prof. RNDr. N	/iroslav Repčák, DrSc., prof. RNDr.				

University: P. J. Šafá	irik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28
Number of ECTS ci	redits: 2
Recommended seme	ester/trimester of the course: 1.
Course level: I., I.II.	, II.
Prerequisities:	
Conditions for cour Conditions for cours Min. 80% of active p	-
Learning outcomes: Learning outcomes: Increasing physical	condition and performance within individual sports. Strengthening the

relationship of students to the selected sports activity and its continual improvement.

Brief outline of the course:

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, basketball, badminton, floorball, yoga, pilates, swimming, body-building, indoor football, self-defence and karate, table tennis, sports for unfit persons, streetball, tennis, and volleyball.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness. In addition to these sports, the Institute offers for those who are interested winter and summer

physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course ass Total numb	essment per of assesse	ed students: 1	2947				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.64	0.06	0.0	0.0	0.0	0.03	7.22	4.05
Provides: doc. PhDr. Ivan Šulc, CSc., Mgr. Zuzana Küchelová, PhD., Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Dávid Kaško, Mgr. Aurel Zelko, PhD., Mgr. Dana Dračková, PhD., Mgr. Marcel Čurgali, PaedDr. Jana Potočníková, PhD.							
Date of last modification: 18.03.2019							
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.							

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Science						
Course ID: ÚTVŠ/ Course name: Sports Activities II. TVb/11							
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ice irse-load (hours): idy period: 28						
Number of ECTS cr	redits: 2						
Recommended seme	ester/trimester of the course: 2.						
Course level: I., I.II.,	, II.						
Dronoquisition							

Prerequisities:

Conditions for course completion:

Conditions for course completion:

Final assessment and active participation in classes - min. 75%.

Learning outcomes:

Learning outcomes:

Increasing physical condition and performance within individual sports. Strengthening the relationship of students to the selected sports activity and its continual improvement.

Brief outline of the course:

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, basketball, badminton, floorball, yoga, pilates, swimming, body-building, indoor football, self-defence and karate, table tennis, sports for unfit persons, streetball, tennis, and volleyball.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course asso Total numb	essment er of assesse	ed students: 1	1186					
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
85.58	0.55	0.02	0.0	0.0	0.05	9.99	3.8	
Provides: doc. PhDr. Ivan Šulc, CSc., Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Peter Bakalár, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Dávid Kaško, Mgr. Aurel Zelko, PhD., Mgr. Dana Dračková, PhD., Mgr. Marcel Čurgali, PaedDr. Jana Potočníková, PhD.								
Date of last modification: 18.03.2019								

Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.

University	: P. J. Šafárik	c University i	n Košice				
Faculty: Faculty:	aculty of Sci	ence					
Course ID TVc/11	: ÚTVŠ/	Course name:	: Sports Acti	vities III.			
Course ty Recomme Per week Course m	pe: Practice ended course : 2 Per study ethod: prese						
	f ECTS cred	1					
		er/trimester	of the cours	e: 3.			
	el: I., I.II., II	•					
Prerequisi	ties:						
Conditions	s for course	completion:					
Learning o	outcomes:						
Brief outlin	ne of the cou	irse:					
Recommen	nded literatu	ire:					
Course lan	guage:						
Notes:							
Course ass Total num		ed students: 7	741				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
90.03	0.04	0.01	0.0	0.0	0.03	4.04	5.85
PhD., Mgr. Stanislav V Mgr. Marce	Peter Bakala okál, DrSc., el Čurgali, Pa	an Šulc, CSc ár, PhD., Mgr Mgr. Dávid F aedDr. Jana P on: 03.05.202	. Agata Horl Kaško, Mgr. otočníková,	bacz, PhD., N Aurel Zelko,	/Igr. Marek V	/alanský, pro	of. RNDr.
Approved: Martin Bač	-	. Pavol Márto	onfi, PhD., pi	rof. RNDr. M	liroslav Repč	éák, DrSc., p	rof. RNDr.

University:	University: P. J. Šafárik University in Košice							
Faculty: Fa	Faculty: Faculty of Science							
Course ID: TVd/11	ID: ÚTVŠ/ Course name: Sports Activities IV.							
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 credits: 2								
			- f 4]	4				
		er/trimester	of the cours	e: 4.				
	el: I., I.II., II							
Prerequisit								
		completion:						
Learning o								
Brief outlin	ne of the cou	irse:						
Recommen	ded literatu	ire:						
Course lan	guage:							
Notes:								
Course ass Total numb		ed students: 5	086					
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
85.19	0.29	0.04	0.0	0.0	0.0	6.78	7.69	
Provides: doc. PhDr. Ivan Šulc, CSc., Mgr. Zuzana Küchelová, PhD., Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Lucia Kršňáková, PhD., Mgr. Dávid Kaško, Mgr. Aurel Zelko, PhD., Mgr. Dana Dračková, PhD., Mgr. Marcel Čurgali, PaedDr. Jana Potočníková, PhD. Date of last modification: 03.05.2015								
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.								

University: P. J. Šaf	čárik Universi	ty in Košice					
Faculty: Faculty of	Science						
Course ID: ÚBEV/ SVK/01	JBEV/ Course name: Student Scientific Conference						
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (ho dy period:						
Number of ECTS c	redits: 4						
Recommended sem	ester/trimest	ter of the cours	se:				
Course level: I., II.							
Prerequisities:							
Conditions for cou	rse completio	on:					
Learning outcomes	:						
Brief outline of the	course:						
Recommended liter	rature:						
Course language:							
Notes:							
Course assessment Total number of ass	essed student	s: 277					
A	В	С	D	Е	FX		
100.0	100.0 0.0 0.0 0.0 0.0 0.0						
Provides:				·			
Date of last modific	cation: 03.05.	2015					
Approved: prof. RN Martin Bačkor, DrSo		ártonfi, PhD., p	rof. RNDr. Miros	lav Repčák, DrSo	c., prof. RNDr.		

University: P. J. Šafá	rik University in Košice							
Faculty: Faculty of Science								
Course ID: ÚTVŠ/ LKSp/13	KSp/13							
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s							
Number of ECTS cr	edits: 2							
Recommended seme	ster/trimester of the course:							
Course level: I., II.								
Prerequisities:								
Conditions for course Conditions for course Attendance Final assessment: Ra	•							
Learning outcomes: Learning outcomes: Students have knowl	edge of rafts (canoe) and their control on waterway.							
5. Canoe lifting and o	ourse: Ticulty of waterways Ting ning using an empty canoe carrying n the water without a shore contact be out of the water							
Recommended litera	iture:							
Course language:								
Notes:								

Course assessment Total number of assessed students: 151	
abs	n
45.03	54.97
Provides: Mgr. Peter Bakalár, PhD.	
Date of last modification: 18.03.2019	
Approved: prof. RNDr. Pavol Mártonfi, PhD., pr Martin Bačkor, DrSc.	rof. RNDr. Miroslav Repčák, DrSc., prof. RNDr.

	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course				
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s				
Number of ECTS cr	edits: 2				
Recommended seme	ester/trimester of the course:				
Course level: I., II.					
Prerequisities:					
Conditions for course Conditions for course Attendance Final assessment: con	•				
Learning outcomes: Learning outcomes:					
conditions as they wi and demanding situa	miliarized with principles of safe stay and movement in extreme natural ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles.				
conditions as they will and demanding situal course develops team require overcoming of Brief outline of the c Brief outline of the c Lectures: 1. Principles of behav 2. Preparation and lea 3. Objective and subj 4. Principles of hygie Exercises: 1. Movement in terra	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. Fourse: ourse: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay				
 conditions as they will and demanding situal course develops team require overcoming of Brief outline of the construction of the construc	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. Fourse: ourse: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay ad food preparation.				
conditions as they will and demanding situal course develops team require overcoming of Brief outline of the c Brief outline of the c Lectures: 1. Principles of behave 2. Preparation and lea 3. Objective and subj 4. Principles of hygie Exercises: 1. Movement in terra 2. Preparation of imp 3. Water treatment ar	ill obtain theoretical knowledge and practical skills to solve the extraordinary ations connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles. Fourse: ourse: viour and safety for movement and stay in unknown mountains adership of tour jective danger in mountains ene and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) provised overnight stay ad food preparation.				

Course assessment Total number of assessed students: 392	
abs	n
44.39	55.61
Provides: Mgr. Marek Valanský, MUDr. Peter Dom	ibrovský
Date of last modification: 15.03.2019	
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof Martin Bačkor, DrSc.	. RNDr. Miroslav Repčák, DrSc., prof. RNDr.

University: P. J. Š	Safárik Universi	ty in Košice					
Faculty: Faculty	of Science						
Course ID: KPPaPZ/UPR/03	Course na	Course name: The Art of Aiding by Verbal Exchange					
Course type, scop Course type: Pra Recommended Per week: 2 Per Course method:	actice course-load (ho study period: 2	ours):					
Number of ECTS	S credits: 2						
Recommended se	emester/trimest	er of the cours	se: 4.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completio	n:					
Learning outcom	ies:						
Brief outline of t	he course:						
Recommended li	terature:						
Course language	:						
Notes:							
Course assessme Total number of a		s: 49					
Α	В	С	D	E	FX		
85.71	85.71 4.08 2.04 2.04 2.04 4.08						
Provides: Mgr. O	ndrej Kalina, Pł	ıD.	·				
Date of last modi	fication: 18.03.	2019					
Approved: prof. I Martin Bačkor, Dr		irtonfi, PhD., p	rof. RNDr. Miros	lav Repčák, DrS	c., prof. RNDr		

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ ZKLS//13					
Course type, scope a Course type: Practic Recommended cou Per week: 36 Per st Course method: pre	ce rse-load (hours): cudy period: 504				
Number of ECTS cr	edits: 2				
Recommended seme	ster/trimester of the cours	e:			
Course level: I., II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:	Learning outcomes:				
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:	· · · · · · · · · · · · · · · · · · ·				
Course assessment Total number of asse	ssed students: 97				
abs n					
32.99 67.01					
Provides: doc. PhDr.	Provides: doc. PhDr. Ivan Šulc, CSc., Mgr. Marek Valanský				
Date of last modifica	ation: 03.05.2015				
Approved: prof. RNI Martin Bačkor, DrSc.	· · · · ·	of. RNDr. Miroslav Repčák, DrSc., prof. RNDr.			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ Course name: Zoogeography ZOG1/03					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present					
Number of ECTS credits: 6					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisities:					
Conditions for cours Active participation i Preparation of oral pr	•				

Semestral written test.

Oral examination

Learning outcomes:

The main goal of the subject is to get knowledge on the basic reasons of recent distribution of the animals on the Earth, zoogeographic regionalization of the Earth's surface and human influence on the faunal distribution in the history.

Brief outline of the course:

This course will review our current understanding of the patterns of animal distribution and the processes that influence distributions of species and their attributes. Zoogeography will integrate information on the historical and current ecology, genetics, and physiology of animals and their interaction with environmental processes (continental drift, climate) in regulating geographic distributions. The course will emphasize descriptive and analytical approaches useful in hypothesis testing in zoogeography and will illustrate applied aspects of zoogeography (e.g. refuge design in conservation).

Recommended literature:

Buchar, J., 1983: Zoogeografie. SPN Praha

Darlington, P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates, 1-845 Plesník, P., Zatkalík, F., 1996: Biogeografia. Vysokoškolské skriptá, PríFUK Bratislava

Course language:

Notes:

Course assessment							
Total number of assessed students: 913							
A B C D E FX							
23.77	23.33	24.64	18.51	7.78	1.97		
Provides: prof. RNDr. Ľubomír Kováč, CSc.							
Date of last modification: 05.10.2017							
Approved: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Miroslav Repčák, DrSc., prof. RNDr. Martin Bačkor, DrSc.							