University: P. J. Ša	afárik Universi	ty in Košice			
Faculty: Faculty o	f Science				
Course ID: KFaD AFS/05	F/ Course na	me: Ancient Ph	ilosophy and Pre	esent Times	
Course type, scop Course type: Pra Recommended co Per week: 2 Per s Course method:	ctice ourse-load (ho study period: 1	ours):			
Number of credits	s: 2				
Recommended ser	mester/trimest	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completio	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Course assessmen Total number of as	-	s: 31			
A	В	С	D	Е	FX
80.65	6.45	6.45	0.0	6.45	0.0
Provides: Doc. Ph	Dr. Peter Nezn	ík, CSc.		·	
Date of last modif	ication: 31.08.	2017			
Approved: Guarar	nteeprof. RNDr	. Martin Bačkor	, DrSc.		

University: P. J. Šat	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ BFR/14	Course na	me: Botany and	Plant Physiolog	у	
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (ho 1dy period:				
Number of credits:	4				
Recommended sem	nester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcomes	5:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Course assessment Total number of ass		s: 19			
A	В	С	D	Е	FX
47.37	21.05	21.05	5.26	5.26	0.0
Provides:				L	L
Date of last modified	cation: 23.02	.2018			
Approved: Guarant	eeprof. RND	r. Martin Bačkor	, DrSc.		

Universitv	: P. J. Šafáril	k University i	n Košice				
-	aculty of Sci						
Course ID BRS1/03		Course name:	Biology of	Plant Symbi	ioses		
Course ty Recomme Per week	pe: Lecture ended cours : 2 Per study ethod: prese	-					
Recommer	nded semest	er/trimester	of the cours	e:			
Course lev	el: II., III.						
Prerequisi	ties:						
Condition	s for course	completion:					
Learning of Introduction		and ecology	of plant sym	bioses.			
Morpholog plant symb	oioses. Licher	irse: gical, physiolo ns, mycorrhiz nd endosymb	a, symbiosis		1		-
Van den H		ire: 1995: Algae odern Mycolo		ction to phyc	cology,		
Course lan	iguage:						
Course ass Total numl		ed students: 3	86				
А	В	C	D	Е	FX	N	Р
96.63	0.0	0.0	0.0	0.0	0.0	0.0	3.37
90.05		Mantin Dažla	r DrSc	•	•	•	•
Provides: p	prof. RNDr.]	магип Васко	n, DISC.				
Provides: 1		on: 23.02.201	·				

University:	P. J. Šafári	k University i	n Košice				
Faculty: Fa	culty of Sc	ience					
Course ID: BTR1/06	ÚBEV/	Course name:	Plant Biote	chnology			
Course typ Recommen	be: Lecture nded cours 2 / 3 Per s	se-load (hours tudy period: 2	5):				
Number of	credits: 6						
Recommen	ded semes	ter/trimester	of the cours	e:			
Course leve	e l: I., II., II	[.					
Prerequisit	ies:						
	cipation at	completion: the practicals	, written test	, protocols,			
Learning o To gain the		l practical kno	wledge on p	lant tissue cu	ulture in vitro).	
embryoids research and	lant tissue and organ d praxis. Cr	urse: culture. Genet s cultured in yopreservation ts and express	vitro under n of plant cel	sterile cond ls and tissues	itions. Use	of the tissue	e culture in
	al.: Plant H 2d.): An Int	Biotechnology. roduction to N					601 pp.
Course lang	guage:						
Course asse Total numb		sed students: 1	44				
А	В	С	D	Е	FX	N	Р
38.19	18.75	14.58	8.33	11.81	3.47	0.0	4.86
Provides: p	rof. RNDr.	Eva Čellárová	á, DrSc., RN	Dr. Katarína	Nigutová, Pl	hD.	
	-	1					
Date of last	modificat	ion: 23.02.201	18				

University: P	P. J. Šafárik	University in	n Košice				
Faculty: Facu	ulty of Scie	ence					
Course ID: Ú CK1/03	ĴBEV/ C	Course name:	Cytogenetic	s and Karyo	logy		
	e: Lecture / ded course / 2 Per st	/ Practice e-load (hours udy period: 1	s):				
Number of c	redits: 4						
Recommend	ed semeste	er/trimester	of the course				
Course level:	: II., III.						
Prerequisitie	s:						
Conditions fo written tests, protocols, oral examina							
Learning out To gain know scientific find results comm	vledge and dings of cy	-	d moleculoar			-	
Brief outline Organisation structure and Polythene ch cell different characteristic	of eukary changes o romosome iation. App	otic genome. of chromatin. es. Cell cycle optosis. Telor	Levels of Die. Genetic re neres and fur	NA organisa gulation of nction of tel	ation in cell r a cell cycle. omerase. Mo	ucleus. Chi Genetic re	romosomes. egulation of
Recommend Russel, J.P.: (New York 19 Periodicals Internet source	Genetics, 7 192		Harper Colli	ns Publishe	r,		
Course langı	lage:						
Course asses Total number		ed students: 1	207				
A	B	C	D	Е	FX	N	Р
24.86	14.66	15.49	14.83	17.4	11.76	0.0	0.99
Provides: pro	of. RNDr. I	Eva Čellárová	i, DrSc., RNI	Dr. Katarína	Bruňáková, H	PhD.	
Data of last -							
Date of last I	nodificati	on: 23.02.201	.8				

ſ

			n Košice				
Faculty: Fa	aculty of Scie	ence					
Course ID: CRO1/03	: ÚBEV/ C	ourse name:	: Chronophy	siology			
Course ty Recomme Per week:	pe: Lecture ended course	e-load (hours udy period: 2	s):				
Number of	credits: 5						
Recommer	nded semest	er/trimester	of the cours	e:			
Course lev	el: II., III.						
Prerequisi	ties:						
Conditions Oral exami	for course ination.	completion:					
	the problema	atics of the tir	ne organisati	ion of biolog	ical processe	es and their s	ignificance
in evolutio	n of living of	rganisms					
Brief outlin Time struc biological genetic bas of biologic	ne of the cou cture of phys rhythms. The sis and molec al rhythms. 7		e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. Tl anism. The s	on of living ne endogeno significance	things. The us character of circadian
Brief outlin Time struc biological genetic bas of biologic and seasor principles.	ne of the cou cture of phys rhythms. The sis and molec al rhythms. 7	Irse: iological var e significance ular mechani The multiosc or the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. Tl anism. The s	on of living ne endogeno significance	things. The us character of circadian
Brief outlin Time struc biological genetic bas of biologic and seasor principles.	ne of the cou eture of phys rhythms. The sis and molec ral rhythms. ' nal rhythms f nded literatu	Irse: iological var e significance ular mechani The multiosc or the anima	e of biologic sms of biolog illatory syste	al rhythms in gical clocks i m of the org	n the evoluti n animals. Tl anism. The s	on of living ne endogeno significance	things. The us character of circadian
Brief outlin Time struc biological genetic bas of biologic and seasor principles. Recommer Course lan Course ass	ne of the cou eture of phys rhythms. The sis and molec al rhythms. The nal rhthms f nded literatu guage: essment	Irse: iological var e significance ular mechani The multiosc or the anima	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org	n the evoluti n animals. Tl anism. The s	on of living ne endogeno significance	things. The us character of circadian
Brief outlin Time struc biological genetic bas of biologic and seasor principles. Recommer Course lan Course ass	ne of the cou eture of phys rhythms. The sis and molec al rhythms. The nal rhthms f nded literatu guage: essment	iological var significance ular mechani The multiosc or the anima	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org	n the evoluti n animals. Tl anism. The s	on of living ne endogeno significance	things. The us character of circadian
Brief outlin Time struct biological genetic bass of biologic and seasor principles. Recommen Course lan Course ass Total numb	ne of the cou eture of phys rhythms. The sis and molec al rhythms. The al rhthms f nded literatu guage: essment per of assesse	ed students: 8	e of biologic sms of biolog illatory syste al and huma	al rhythms in gical clocks i m of the org n life. The	n the evoluti n animals. The anism. The s application	on of living ne endogeno significance of chrono-pl	things. The us character of circadian hysiological
Brief outlin Time struc biological genetic bas of biologic and seasor principles. Recommer Course lan Course ass Total numb A 22.09	ne of the cou eture of phys rhythms. The sis and molec val rhythms. The hal rhythms. The hal rhythms f nded literature reguage: essment ber of assessed B 22.09	ed students: 8	e of biologic sms of biolog illatory syste al and huma 66 D 11.63	al rhythms in gical clocks i m of the org n life. The E 4.65	n the evoluti n animals. The anism. The s application of FX 0.0	on of living ne endogeno significance of chrono-pl	things. The us character of circadian hysiological
Brief outlin Time struc biological genetic bas of biologic and seasor principles. Recommen Course lan Course ass Total numb A 22.09 Provides: p	ne of the cou eture of phys rhythms. The is and molec cal rhythms. The is and rhythms. The is an of a second cal rhythms. The is a second cal rhyth	ed students: 8	e of biologic sms of biolog illatory syste al and huma 66 D 11.63 jda, CSc., R1	al rhythms in gical clocks i m of the org n life. The E 4.65	n the evoluti n animals. The anism. The s application of FX 0.0	on of living ne endogeno significance of chrono-pl	things. The us character of circadian hysiological

University: P. J.	Safarik Univers	ity in Kosice			
Faculty: Faculty	of Science				
Course ID: KFa DF2p/03	DF/ Course na	me: History of	Philosophy 2 (Ge	eneral Introductio	on)
Recommended	ecture / Practice course-load (h Per study perio	ours):			
Number of cred	lits: 4				
Recommended	semester/trimes	ter of the cours	se:		
Course level: I.,	II.				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Course assessm Total number of	ent assessed studen	ts: 738			
А	В	С	D	Е	FX
60.84	13.82	12.6	8.67	3.39	0.68
Provides: doc. F Katarína Mayero		· · 1	· · · · · · · · · · · · · · · · · · ·	Peter Nezník, CSc	c., PhDr.
Date of last mo	dification: 31.08	.2017			
Annuarada Cuar	rantaanraf DND	r. Martin Bačko	r DrSc		

University: P. J. Š	afárik Univers	sity in Košice					
Faculty: Faculty o	f Science						
Course ID: ÚBEV DNR/06	Course ID: ÚBEV/ Course name: Dendrology DNR/06						
Course type, scop Course type: Lec Recommended c Per week: 2 / 2 P Course method:	cture / Practice ourse-load (h er study peri	e iours):					
Number of credits							
Recommended se	mester/trime	ster of the cours	se:				
Course level: II.	,						
Prerequisities:							
Conditions for co	urse completi	ion:					
Learning outcom	es:						
Basic knowledge of Morphological sig distribution. Intras Selected chapters Application of wo urban environmen occurrence, measu expansion and inv	ns of woody p pecific variab from seed pro ody plants in t. Protected an ires of protect	plants, ecological pility, growth form duction and tree garden and lands and memorial tree ion and treating.	l requirements, ge ns and their use. nursery of woody cape architecture s, databasis of	eographic y plants. in			
Recommended lit	erature:						
Course language:							
Course assessmen Total number of as		nts: 58					
A	В	C	D	Е	FX		
63.79	17.24	8.62	10.34	0.0	0.0		
Provides: doc RN	Dr. Sergej Mo	ochnacký, CSc.,	Ing. Peter Kelbel,	, Dr.			
Date of last modif	ication: 23.02	2.2018					

University: P. J. Šaf	ärik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ DPO/14	Course na	me: Diploma T	hesis and its Defe	ence	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (ho dy period:				
Number of credits:	20				
Recommended sem	ester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cour	se completio	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Course assessment Total number of ass	essed student	s: 148			
A	В	С	D	Е	FX
56.08	29.05	9.46	3.38	2.03	0.0
Provides:			1	·	
Date of last modific	ation: 23.02	2018			
Approved: Guarante	eeprof. RND	. Martin Bačko	, DrSc.		

University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚB EB1/99	EV/ Course n	ame: Evolutiona	ry Biology		
Course type:] Recommende	d course-load (h er study period:	iours):			
Number of cre	dits: 3				
Recommended	semester/trime	ster of the cours	se: 3.		
Course level: I	I.				
Prerequisities:					
Conditions for written test	course complet	ion:			
	the fundamentals	-		vidence supportin nd the mechanism	
population way classification. O of onthogeny. Primary and sec	view of evolution ves, and isolation Concept of speci Phylogeny of an	n. Natural select es. Macroevolutionimals. Evolution of plants. Represent	ion. Molecular on. Evolution of nary progress. A oduction-isolatio	Elements of evolu evolution. Adapta f functions and on Anthropogenesis. on mechanisms. H nts.	ations and their rgans, evolution Plant diversity.
• ·		0.7	,	erland, 3rd ed., 19	997.
Course langua	ge:				
Course assessn Total number o	nent f assessed studer	nts: 535			
А	В	C	D	E	FX
11.4	24.3	23.93	24.67	13.83	1.87
Provides: prof. Čellárová, DrSc		ártonfi, PhD., pro	of. RNDr. Beňad	ik Šmajda, CSc.,	prof. RNDr. Eva
,					
Date of last mo	dification: 23.02	2.2018			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Animal and human ecophysiology EFZL/03 Course name: Animal and human ecophysiology Course ID: ÚBEV / [Course name: Animal and human ecophysiology EFZL/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 credits: 6 Recommended semester/trimester of the course: Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, dispause. Adaptations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, dispause. Adaptations, fasting, starvation, verofeeding. Thermoregulation. Hibernation, estivation, dispause. Adaptations, fastions, starvation, Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supre		CO	URSE INFORM	IATION LETT	ſER	
Course ID: ÚBEV/ EFZI/03 Course name: Animal and human ecophysiology 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 credits: 6 Recommended semester/trimester of the course: Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: In eaim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature: Number of course intervention. Prions.	University: P. J. Šafá	rik Univers	ity in Košice			
EFZ1/03 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 credits: 6 Recommended semester/trimester of the course: Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature: Recommended literature:	Faculty: Faculty of S	cience				
Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present Number of credits: 6 Recommended semester/trimester of the course: Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:		Course na	me: Animal and	human ecophys	siology	
Recommended semester/trimester of the course: Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Course type: Lectur Recommended cou Per week: 2 / 2 Per	re / Practice rse-load (h study peri	ours):			
Course level: II. Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Number of credits: (5				
Prerequisities: Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Recommended seme	ester/trimes	ster of the cours	e:		
Conditions for course completion: Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Course level: II.					
Seminar. Test. Learning outcomes: The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Prerequisities:					
The aim of lectures is to provide students with knowledge of adaptations to environmental factors and extreme environments effects. Brief outline of the course: Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	Seminar.	se completi	on:			
Environmental factors, reaction, adaptation, deformation. Biological rhythms. Stress reaction - general adaptation syndrom. Physiology and pathology of adaptation mechanisms - fever, pain, inflammation, apoptosis, necrosis. Aging. Regulation of food intake. Food adapations, fasting, starvation, overfeeding. Thermoregulation. Hibernation, estivation, diapause. Adaptations to hypobaria and hyperbaria. Adaptations to hypergravity and microgravity. Electromagnetic fields. Biotransformation. Xenobiotics in air, water and soil. Drugs of abuse. Carcinogenesis, oncogenes, tumor supressor genes. Cancer prevention. Prions. Recommended literature:	The aim of lectures is	-		owledge of ada	ptations to enviro	nmental factors
	Environmental facto - general adaptation pain, inflammation, fasting, starvation, or to hypobaria and hyp Biotransformation. X	ors, reaction syndrom. apoptosis, verfeeding. erbaria. Ada (enobiotics	Physiology and necrosis. Aging Thermoregulatio aptations to hyper in air, water and	pathology of . Regulation of n. Hibernation, gravity and mic soil. Drugs of al	adaptation mecha f food intake. For estivation, diapau rogravity. Electron	anisms - fever, ood adapations, se. Adaptations magnetic fields.
 Wilmer P and co.: Environmental Physiology of Animals. Blackwell Publishing Inc., 2004 Chown SL, Nicolson SW: Insect Physiological Ecology. Oxford University Press 2004 	1. Wilmer P and co.:	Environme			Ũ	,
Course language:	Course language:	2				
Course assessment Total number of assessed students: 399		ssed studen	ts: 399			
A B C D E FX	A	В	С	D	Е	FX
14.29 23.06 22.06 22.81 16.54 1.25	14.29	23.06	22.06	22.81	16.54	1.25
Provides: doc. RNDr. Bianka Bojková, PhD.	Provides: doc. RND	: Bianka Bo	ojková, PhD.			
Date of last modification: 23.02.2018	Date of last modifica	ation: 23.02	2.2018			
Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.	Approved: Guarante	eprof. RND	r. Martin Bačkor	, DrSc.	-	

University: P. J. Šaf	ărik Univers	ity in Košice			
Faculty: Faculty of	Science	-			
Course ID: ÚBEV/ EKR1/03	Course na	me: Plant Ecolo	gy		
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: p	ure / Practice urse-load (h r study perio	ours):			
Number of credits:	6				
Recommended sem	ester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomes Introduction to Plan					
Brief outline of the Basic problems of p between individuals of populations and s	lant integrat and populati	on, dynamics of	the populations.	Interactions betwee	
Recommended liter	ature:				
Course language:					
Course assessment Total number of ass	essed studen	ts: 239			
Α	В	С	D	Е	FX
72.8	16.74	6.28	2.51	1.67	0.0
Provides: prof. RNI	Dr. Martin Ba	ačkor, DrSc.		-	1
Date of last modific	ation: 23.02	2.2018			
Approved: Guarante	eeprof. RND	r. Martin Bačkor	, DrSc.		

University: P. J. Ša	fárik Universi	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ ER1/01	Course na	me: Plant Embr	yology		
Course type, scope Course type: Lect Recommended co Per week: 1 / 1 Pe Course method: p	ure / Practice ourse-load (he er study perio	ours):			
Number of credits:	: 3				
Recommended sem	nester/trimes	ter of the cours	e:		
Course level: II.				-	
Prerequisities:					
Conditions for cou Oral examination/ r	-	on:			
Learning outcome To provide the stud		general principle	es of embryogene	esis of the seed p	olants
Life cycle of a ty female gametophyti synergids, antipoda Microsporogenesis. fertilization. Double Plumule, cotyledom in vitro.	te. Ovule, nu ls and polar n . Pollen grai e fertilization	icellus and integuclei. Types the one of the	guments. Megas embryo sacs. De nd tube nucleus nbryogenesis (mo	porogenesis. En velopment of ma s. Pollen tube. ono- and dicotyle	hbryo sac. Egg, ile gametophyte. Pollination and edonous plants).
Recommended lite Johri, B.M. (1984)I Heidelberg. Raven, and Company, New	Plant embryol P.H., Evert, I				-
Course language:					
Course assessment Total number of ass		ts: 122			
A	В	С	D	Е	FX
46.72	29.51	13.93	5.74	4.1	0.0
I					
Provides: RNDr. Le	enka Martonf	iová			
Provides: RNDr. Le					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE ETO1/03	EV/ Course na	ame: Ethology			
Recommended	ecture / Practice course-load (h Per study peri	e ours):			
Number of cred	i ts: 6				
Recommended s	semester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for c Recognition. Written examina	-	on:			
Learning outcom To teach the stud biological science	dents to know ar	nd to be aware of	the importance of	of the behavioura	l aspect in
simplest forms Social behaviour	relopment of eth of learning – co r. Sexual behavi ns. Communicat	ology. Ethologic onditioning and our. Play behavio ion systems of ani ehaviour	instrumental lear our. Biological rh	rning. Higher for tythms. Orientati	rm of learning. on in space and
· · ·	altensbiologie.	Einfuhrung in die n introduction to	0	0	
Course languag	e:				
Course assessme	ent `assessed studen	ts: 930			
Total number of			-		
Total number of A	В	C	D	E	FX
i i i i i i i i i i i i i i i i i i i	B 24.73	C 25.7	D 7.96	E 1.83	FX 0.11
Α	24.73	25.7	7.96	1.83	0.11
A 39.68	24.73 . Igor Majláth, F	25.7 PhD., RNDr. Natá	7.96	1.83	0.11

FG/14 Course type, scope an Course type: Lecture Recommended course	Course name: Functional genomics
FG/14 Course type, scope an Course type: Lecture Recommended course	Course name: Functional genomics
Course type: Lecture Recommended cours	
Course method: pres	e / Practice se-load (hours): study period: 28 / 28
Number of credits: 5	
Recommended semes	ster/trimester of the course: 2.
Course level: II., III.	
Prerequisities:	
C onditions for course Active participation in	e completion: n practical and theoretical courses
genes, RNA transcript their genome-wide app rather than a more trac	attempts to answer questions about the function of DNA at the levels of ts, and proteins. A key characteristic of functional genomics studies is proach to these questions, generally involving high-throughput methods ditional "gene-by-gene" approach. The outcome of this course will be approaches and methods used in functional genomics and their application in practice.
 input of genome seque Genome-wide revers use in functional geno Transcriptomics: me Proteomics: method analysis, data mining Metabolomics: method data analysis, data mir Interactomics - proteorics Biological databases 	tional genomics onal genomics: sequenced model organisms, conceptual and methodologica encing, structural vs. functional genome annotation be genetics: techniques to create collections of genome-wide mutants and their omics othods to obtain transcriptome data, data analysis, data mining ds to obtain proteome data, quantitative vs. qualitative proteomics, data
Recommended literat Internet sources, Powe	
C ourse language: English	

A	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. Katarína Bruňáková, PhD., RNDr. Andrea Kimáková, PhD., RNDr. Katarína Nigutová, PhD., RNDr. Linda Petijová, PhD., RNDr. Andrea Schreiberová, PhD.									
Date of last	modificatio	on: 23.02.201	8						
Approved:	Guaranteepr	of. RNDr. M	artin Bačkor	, DrSc.					

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚBEV FG1/03	V/ Course na	me: Phytogeogr	aphy		
Course type, scop Course type: Le Recommended o Per week: 2 / 1 H Course method:	cture / Practice course-load (h Per study perio	ours):			
Number of credit	s: 5				
Recommended se	mester/trimes	ster of the cours	e:		
Course level: I., I	I.				
Prerequisities:					
Conditions for co Written work. Exam.	urse completi	on:			
Learning outcom To obtain theoreti		al knowledge fro	om phytogeograp	bhy.	
Brief outline of the History of phytogendemites, vicaria ages. Postglacial geography: from Geographical orige Practices: Fieldwe seminar works on	geography. Pla ancy, floral eler evolution of S tropical rainfo gin of cultivated orks. Preparin	ments. Main cou lovak vegetation prests to tundras d plants. ng of maps. Phy	rse of florogenes . Regional phyto s. Changes of es	sis since paleozo ogeography of E arth vegetation a	ic to quaternary arth. Vegetation and their study.
Recommended lit Hendrych R.: Fyt Brown J. H., Lom	ogeografie S			s, Sunderland, 19	998.
Course language:	:				
Course assessmen Total number of a		ts: 349			
A	В	С	D	Е	FX
38.97	22.35	21.49	8.02	8.31	0.86
Provides: prof. R	NDr. Pavol Má	rtonfi, PhD., Mg	r. Vladislav Kola	arčik, PhD.	
Date of last modi	fication: 23.02	2.2018			
Approved: Guara					

University: P. J. S Faculty: Faculty Course ID: ÚBE FRV1/03	of Science	ity in Košice						
Course ID: ÚBE								
·	V/ Course name: Physiology of Plant Growth and Development							
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):						
Number of credi	i ts: 6							
Recommended s	emester/trimes	ster of the cours	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for co	ourse completi	on:						
Learning outcon To learn about ba		d approaches in	physiology of pl	ant growth and d	evelopment			
transport, physic and abscisic aci ecological functi	ological and de id. Photomorph ions, molecular lation of floweri	evelopmental eff nogenesis and e mechanisms. B ing. Senescence	fects; auxin, gil tiolation. Phyto slue-light respor and programmed	on. Hormones: 1 oberellins, cytoki ochrome: properti nses. Rhythms. G d cell death. Orien logy.	innins, ethylend ies, physiology Germination and			
Recommended li Taiz L., Zeiger E		ogy. Fifth edition	n. Sinauer ass., S	Sunderland 2010				
Course language	··							
Course assessme Total number of a		ts: 104						
A	В	С	D	Е	FX			
36.54	21.15	17.31	13.46	8.65	2.88			
Provides: Ing. Ro	obert Gregorek,	RNDr. Michaela	a Bačovčinová					
Date of last mod	ification: 23.02	2.2018						
	anteenref DND	r. Martin Bačkor	. D.C.					

University: P. J. Šafa	árik Univers	ity in Košice			
Faculty: Faculty of S	Science				
Course ID: ÚBEV/ GB1/03	Course na	me: Geobotany			
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	ire / Practice irse-load (h study perio resent	ours):			
Number of credits:	4				
Recommended sem	ester/trimes	ter of the course	2 •		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Course assessment Total number of asse	essed studen	ts: 49			
A	В	С	D	Е	FX
46.94	22.45	16.33	8.16	6.12	0.0
Provides: doc. RND	r. Sergej Mo	chnacký, CSc.		·	
Date of last modific	ation: 23.02	.2018			
Approved: Guarante	eprof. RND	r. Martin Bačkor,	DrSc.		

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚGE/ GDPZ/18	Course na	me: Geographic	al Information S	ystems and Rem	ote Sensing
Course type, scop Course type: Le Recommended o Per week: 2 / 2 I Course method:	cture / Practice course-load (he Per study perio	ours):			
Number of credit	s: 4				
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 lit	terature:				
Course language:					
Course assessmen Total number of a	-	ts: 0			
A	В	С	D	Е	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. Mg Kaňuk, PhD.	gr. Michal Gall	ay, PhD., prof. N	/gr. Jaroslav Ho	fierka, PhD., doc	. RNDr. Ján
Date of last modi	fication: 22.02	.2018			
Approved: Guara	nteeprof. RND	r. Martin Bačko	. DrSc.		

University: P. J. Š	afárik Universit	y in Košice			
Faculty: Faculty of	of Science				
Course ID: KFaD IH2/03	DF/ Course nar	ne: Idea Huma	nitas 2 (General]	Introduction)	
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (ho study period: 2	urs):			
Number of credit	ts: 2				
Recommended se	emester/trimest	er of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	n:			
Learning outcom	les:				
Brief outline of th	ne course:				
Recommended li	terature:				
Course language:	:				
Course assessme Total number of a		:: 8			
A	В	С	D	Е	FX
87.5	12.5	0.0	0.0	0.0	0.0
Provides: Doc. Pl	Dr. Peter Nezní	k, CSc.			1
Date of last modi	fication: 31.08.2	2017			
Approved: Guara	nteeprof. RNDr.	Martin Bačko	r, DrSc.		

	Šafárik Univers				
Faculty: Faculty	of Science				
Course ID: ÚBI IMU1/03	EV/ Course na	ame: Immunolog	зу		
	ecture course-load (h r study period:	ours):			
Number of cred	its: 3				
Recommended	semester/trimes	ster of the cours	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for o Recognition. Oral examinatio	-	on:			
comprehension responses. Brief outline of Basic immunolo Responses of Im Recognition by I	of complex mole the course: ogy: Lymphatic nate Immunity, T B-cell and T-cel	System Anator he Adaptive Imr Receptors, Anti	ar interactions du my, The Innate nune Response, A gen Presentation	immune system, ring the induction Immune System Antigens and Anti to T-lymphocyte	n of immune n, The Induced bodies, Antiger s, Complement
	0, 0,	and other Hyper		oimmunity and	Transplantation
Recommended Janeway Ch. A.,	literature: , Travers P., Wal	port M., Schlom mmunobiology.	chik M.: Immuno 8th ed. Garland S		1 Science, 2004
Delves, P.J. et al	. (2011): Roitt's	essential immur	ology 12th ed W	iley-Blackwell	
Delves, P.J. et al			ology 12th ed W		
- • ·	e: ent		ology 12th ed W		
Delves, P.J. et al Course languag Course assessm	e: ent		D	E	FX
Delves, P.J. et al Course languag Course assessm Total number of	e: ent assessed studen	ts: 866		-	
Delves, P.J. et al Course languag Course assessm Total number of A 38.68	e: ent assessed studen B 24.13	ts: 866 C 25.17	D	Е	FX
Delves, P.J. et al Course languag Course assessm Total number of A	e: ent assessed studen B 24.13 : Vlasta Demečk	ts: 866 C 25.17 ková, PhD.	D	Е	FX

University: P. J. Šafa	árik Universi	ity in Košice			
Faculty: Faculty of S	Science				
Course ID: ÚBEV/ IOR/09	Course na	me: Plant Protec	tion		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	re / Practice rse-load (he study perior resent	ours):			
Number of credits:					
Recommended sem	ester/trimes	ter of the course	2:		
Course level: I., II.					
Prerequisities: ÚBE	V/VEK1/03				
Conditions for cour	se completio	on:			
Learning outcomes					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Course assessment Total number of asse	essed student	ts: 44			
A	В	С	D	Е	FX
4.55	27.27	25.0	18.18	25.0	0.0
Provides: prof. RND	Dr. Martin Ba	ičkor, DrSc., Ing.	Martin Suvák,	PhD.	
Date of last modific	ation: 23.02	.2018			
Approved: Guarante	eprof. RND	r. Martin Bačkor,	, DrSc.		

University: P. J. Š	Safárik Universit	y in Košice			
Faculty: Faculty	of Science				
Course ID: KFaE KDF/05		ne: Chapters fr General Introdu	•	nilosophy of 19th	and 20th
Course type, scop Course type: Pra Recommended Per week: 2 Per Course method:	actice course-load (ho study period: 2	urs):			
Number of credit	ts: 2				
Recommended so	emester/trimest	er of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	n:			
Learning outcom	ies:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	:				
Course assessme Total number of a	-	:: 10			
A	В	С	D	Е	FX
50.0	20.0	10.0	0.0	10.0	10.0
Provides: doc. Ph	Dr. Pavol Tholt,	PhD., mim. pr	of.	·	1
Date of last modi	fication: 31.08.	2017			
Approved: Guara	inteeprof. RNDr.	Martin Bačkor	, DrSc.		

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: KPPaPZ/KK/07					
Course type, scop Course type: Pra- Recommended co Per week: 2 Per s Course method:	ctice ourse-load (he study period:	ours):			
Number of credits	: 2				
Recommended ser	nester/trimes	ter of the course: 3.			
Course level: II.					
Prerequisities:					
Conditions for cou	irse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Course assessmen Total number of as		ts: 281			
abs		n	Z		
98.22		1.78	0.0		
Provides: Mgr. On	drej Kalina, P	hD., Mgr. Lucia Hricová, PhD.	•		
Date of last modif	ication: 21.08	.2017			
Approved: Guaran	teeprof. RND	r. Martin Bačkor, DrSc.			

University: P. J. Safái	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚTVŠ/ KP/12						
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce r se-load (hours): y period: 36s					
Number of credits: 2	,					
Recommended seme	ster/trimester of the cours	e:				
Course level: I., II.						
Prerequisities:						
Conditions for cours Conditions for course Attendance Final assessment: cor	1	ks within the course				
conditions as they wi and demanding situat	Il obtain theoretical knowled ions connected with surviva work and students will lear	afe stay and movement in extreme natural dge and practical skills to solve the extraordinary and minimization of damage to health. The m how to manage and face the situations that				
Brief outline of the c Brief outline of the co Lectures: 1 Principles of behav	ourse:					
 Preparation and lea Objective and subj Principles of hygie Exercises: Movement in terra 	dership of tour ective danger in mountains ne and prevention of damag in, orientation and navigatic rovised overnight stay	ent and stay in unknown mountains ge to health in extreme conditions on in terrain (compasses, GPS)				
 Preparation and lea Objective and subj Principles of hygie Exercises: Movement in terra Preparation of imp 	dership of tour ective danger in mountains ne and prevention of damag in, orientation and navigatic rovised overnight stay d food preparation.	e to health in extreme conditions				
 Preparation and lea Objective and subj Principles of hygie Exercises: Movement in terra Preparation of imp Water treatment an 	dership of tour ective danger in mountains ne and prevention of damag in, orientation and navigatic rovised overnight stay d food preparation.	e to health in extreme conditions				
 Preparation and lea Objective and subj Principles of hygie Exercises: Movement in terra Preparation of imp Water treatment an Recommended litera 	idership of tour ective danger in mountains ne and prevention of damag in, orientation and navigation rovised overnight stay d food preparation. ture:	e to health in extreme conditions				
 Preparation and lea Objective and subj Principles of hygie Exercises: Movement in terra Preparation of imp Water treatment an Recommended litera Course language: Course assessment 	idership of tour ective danger in mountains ne and prevention of damag in, orientation and navigation rovised overnight stay d food preparation. ture:	e to health in extreme conditions				

Provides: MUDr. Peter Dombrovský, Mgr. Marek Valanský

Date of last modification: 18.08.2017

Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Co	ourse-Rafting of TISA River
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): l y period: 36s	
Number of credits: 2		
Recommended seme	ster/trimester of the cours	e:
Course level: I., II.		
Prerequisities:		
Conditions for course Conditions for course Attendance Final assessment: Ra	-	attended/not attended)
Learning outcomes: Learning outcomes: Students have knowle	edge of rafts (canoe) and the	eir control on waterway.
5. Canoe lifting and c	ourse: iculty of waterways iting ning using an empty canoe carrying n the water without a shore be out of the water	contact
Recommended litera	iture:	
Course language:		
Course assessment Total number of asses	ssed students: 142	
	abs	n
	41.55	58.45

Provides: Mgr. Peter Bakalár, PhD.

Date of last modification: 18.08.2017

Approved: Guaranteeprof. RNDr. Martin Bačkor, DrSc.

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE	EV/ Course na	ame: Healing Pla	ants		
LR1/03					
Course type, sco	-	thod:			
Course type: L Recommended		ours):			
Per week: 2 Pe	er study period:				
Course method					
Number of cred					
Recommended s	semester/trimes	ster of the cours	se:		
Course level: I.,	II.				
Prerequisities:					
Conditions for c	course completi	ion:			
Learning outco To provide the s		aling principles o	f plants and pro	duction of drug.	
substances Alcal of medicinal pla Overview of sele Hypericaceae, F	loids, Glycoside ants. Cultivation ected representat Rosaceae, Malv	s, Flavonoids, Ho n and and post-h tives of medicina aceae, Ericaceae	ormons, Enzyme narvest technolo l plants of the far e, Scrophulariac	and their effects es, Essential oils. ogy of Medicinal milies Papaverace ceae, Plantaginac ae, Ginkgoaceae.	Centers of origir Plants, storage ae, Droseraceae eae, Lamiaceae
Recommended					TOXIC plants.
Pahlow M.: Hea		v York 1993			
Course languag	e:				
Course assessme Total number of	ent	nts: 358			
Α	В	C	D	Е	FX
25.14	22.63	21.23	12.29	9.78	8.94
23.14		1			
	: Matej Dudáš, I	PhD.			
Provides: RNDr Date of last mod			<u> </u>		<u> </u>

•	J. Šafárik Unive				
Faculty: Facult					
Course ID: ÚB MR1/03	BEV/ Course	name: Plant Meta	bolism		
Course type: Recommende	cope and the m Lecture / Practic cd course-load (2 Per study per cod: present	ce (hours):			
Number of cre	dits: 6				
Recommended	l semester/trim	ester of the cours	se: 1.		
Course level: I	I.				
Prerequisities:					
Conditions for Examen	course comple	etion:			
Learning outco To provide the secondary meta	students with p	athways of biosyn	thesis in plant an	d functions of pr	imary and
transport, phot plants. Synthe transport and A Nitrogen metal assimilation an of biosynthesis	s: structure of tophosphorylati ssis of starch a ATP synthesis. L bolism: fixation d metabolism. T s, phenylpropane	photosynthetic ap on. Calvin cycle and sucrose. Res ipid biosynthesis a , nitrate assimilati erpenes: biosynth- es, flavonoids and	, rubisco and p piration: glycoly and convertion int on, ammonium c esis and functions	photorespiration. vsis, citric acid to carbohydrates. onversion to ami s. Phenolic compo	C4 and CAN cycle, electron Polyacetylenes no acids. Sulfu punds: pathway
	Photosynthesis.	Third edition. BIC uer ass., Sunderla		Taiz L., Zeiger H	E., Plant
Course langua	ge:				
Course assessn Total number o	nent of assessed stude	ents: 106			
	В	C	D	Е	EV
А				1	FX
A 26.42	16.04	17.92	16.98	19.81	2.83
26.42		17.92 l'ove-Balang, PhD		19.81	
26.42 Provides: doc.		l'ove-Balang, PhD		19.81	

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI MVR/03	EV/ Course name: Mineral Nutrition				
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study per	e 1ours):			
Number of cred	its: 6				
Recommended	semester/trime	ster of the cour	se: 1.		
Course level: II					
Prerequisities:					
Conditions for o	course complet	ion:			
nutrients in plan Brief outline of	vledge about pla ts. the course:		· · ·	ake and the role of	
Symbiosis in pla	ant nutrition. Ma	acroelements, mi	croelements and	nt. Nutrient uptake their role in plant of other mineral	s. Transport and
	Aineral Nutrition il Science : Met	-		emic Press, Londo Scientific ɦ	
Course languag	e:				
Course assessm Total number of		nts: 53			
А	В	C	D	E	FX
50.94	26.42	18.87	0.0	1.89	1.89
Provides: doc. F	NDr. Peter Pal'	ove-Balang, PhI).	-	
Date of last mo	dification: 23.02	2.2018			

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: Dek. UPJŠ/PPZ/13	PF Course na on a Labou		Development ar	nd Key Competer	nces for Success
Course type, scop Course type: Pra Recommended Per week: Per s Course method:	actice course-load (ho study period: 1	ours):			
Number of credit	ts: 2				
Recommended se	emester/trimes	ter of the cour	se: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom	ies:				
Brief outline of the	he course:				
Recommended li	terature:				
Course language	:				
Course assessme Total number of a		s: 39			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr.	Peter Stefányi,	PhD.		·	
Date of last modi	fication: 19.02	.2018			
Approved: Guara	nteeprof. RND	. Martin Bačko	r, DrSc.		

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: KPPaPZ/PPZMg/12		me: Psychology	and Health Psyc	chology (Master's	s Study)
Course type, scope Course type: Lect Recommended co Per week: 1 / 2 Pe Course method: p	ture / Practice ourse-load (he er study perio	ours):			
Number of credits	: 4				
Recommended sen	nester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	rature:				
Course language:					
Course assessment Total number of as	•	ts: 226			
A	В	С	D	Е	FX
19.47	25.22	25.66	13.27	15.93	0.44
Provides: PhDr. Ar	nna Janovská,	PhD., Mgr. Luc	ia Hricová, PhD.		
Date of last modifi	cation: 21.08	.2017			
Approved: Guaran	teeprof. RND	r. Martin Bačko	, DrSc.		

University: P. J. Šafa	arik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚBEV/ SDPa/15	Course name: Diploma Tl	nesis Seminar	_
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period: esent		
Number of credits:			
Recommended sem	ester/trimester of the cours	e: 1.	
Course level: II.			
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: 150		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modific	ation: 23.02.2018		
Approved: Guarante	eprof. RNDr. Martin Bačkor	, DrSc.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	science		
Course ID: ÚBEV/ SDPb/15	Course name: Diploma Th	esis Seminar	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:		
Number of credits:	1		
Recommended seme	ester/trimester of the cours	e: 2.	
Course level: II.			
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 modific:	ation: 23.02.2018		
Approved: Guarante	eprof. RNDr. Martin Bačkor	, DrSc.	

University: P. J. Šafa	arik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚBEV/ SDPc/15	Course name: Diploma T	hesis Seminar	
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:		
Number of credits:	4		
Recommended sem	ester/trimester of the cours	se: 3.	
Course level: II.			
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: 110		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modific	ation: 23.02.2018		
Approved: Guarante	eprof. RNDr. Martin Bačko	r, DrSc.	

University: P. J. Šat	fárik Universi	y in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ SDPd/15	Course na	ne: Diploma T	hesis Seminar		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (ho Idy period:				
Number of credits:	4				
Recommended sem	ester/trimest	er of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	n:			
Learning outcomes	5:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Course assessment Total number of ass		s: 108			
A	В	С	D	Е	FX
87.04	6.48	3.7	0.93	1.85	0.0
Provides:				<u> </u>	
Date of last modifie	cation: 23.02.	2018		_	
Approved: Guarant	eeprof. RNDr	. Martin Bačko	r, DrSc.		

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI SFR/04	EV/ Course na	me: Seminar fro	om Plant Physiol	ogy	
	Practice I course-load (h er study period:	ours):			
Number of cred	lits: 2				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for a	course completi	on:			
	h training, interp	retation of actual lity to constructi			ty to present
for full access to	cs and legal aspe o scientific journ	ects of scientific v nals. Scientific ir discussion in act	nportance of pul	olications (CC an	
Recommended	literature:				
Course languag	,e:				
Course assessm Total number of	ent assessed studen	ts: 22			
А	В	С	D	Е	FX
		0.0	0.0	0.0	0.0
90.91	9.09				0.0
90.91		i, Ph.D.			
	Silvia Gajdošová				

University: P. J. Šafá	rik University in	Košice	
Faculty: Faculty of S	cience		
Course ID: KPPaPZ/SPVKE/07	Course name: Situations	Social-Psychological Tr	raining of Coping with Critical Life
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours) dy period: 28	:	
Number of credits: 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	ture:		
Course language:			
Course assessment Total number of asses	ssed students: 12	6	
abs		n	Z
97.62		2.38	0.0
Provides: Mgr. Ondre	ej Kalina, PhD.		
Date of last modifica	tion: 21.08.2017	7	
Approved: Guarantee	prof. RNDr. Ma	rtin Bačkor, DrSc.	

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	v of Science				
Course ID: ÚBI STFR/09	EV/ Course na	me: Plant stress	physiology		
Recommended	ecture / Practice course-load (h Per study perio	ours):			
Number of cred	lits: 3				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for a	course completi	on:			
regulation of spo Brief outline of Causes, types an	ecific plant defer the course: ad symptoms of s	tress. General m	echanisms of str	ess reactions in li	iving organisms.
salicylic acid, al to stress respon perception, its pr developmental r	bscisic acid, NO nse. Examples of rocessing and sul eaction to the str	and others), proof known plant prosequent physiol press condition.	oteins, metaboli stress signalling ogical changes le	okinins, ethylene tes and other con g cascades start: eading to execution ions, their analysi	npounds related ing from signal on of growth and
Recommended Taiz L, Zeiger E Hirt H.: Plant st	, Plant physiolog		inauer ass., Sund 009.	erland 2006.	
Course languag	e:				
Course assessm Total number of		ts: 11			
А	В	С	D	Е	FX
63.64	18.18	9.09	0.0	0.0	9.09
Provides: Mgr. S	Silvia Gajdošová	i, Ph.D.			
Date of last mod	dification: 23.02	2.2018			

University: P. J. Šaf	ărik Universit	y in Košice			
Faculty: Faculty of	Science				
Course ID: ÚBEV/ SVK/01	Course nan	ne: Student Sci	entific Conferen	ce	
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (ho dy period:				
Number of credits:	4				
Recommended sem	ester/trimest	er of the cours	e:		
Course level: I., II.					
Prerequisities:					
Conditions for cour	rse completio	n:			
Learning outcomes	•				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Course assessment Total number of ass	essed students	: 258			
А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:			1	·	
Date of last modific	cation: 23.02.2	2018			
Approved: Guarante	eeprof. RNDr.	Martin Bačko	, DrSc.		

University: P. J.	Šafárik Univer	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBI TR1/99	EV/ Course n	ame: Plant Taxo	nomy		
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practic course-load (l Per study per	e 1ours):			
Number of cred	its: 5				
Recommended	semester/trime	ester of the cours	se: 1.		
Course level: II.					
Prerequisities:					
Conditions for o Information on s Exam.	-				
Learning outco To learn about b		nd approaches in	plant taxonomy.		
utilization in ta phylogeny of tra	xonomy. Molec acheophytes acc , primary and se	cular data as im cording to the ne condary speciation	erical taxonomy (portant data of re- west data. Evolut on. Basics of bota	ecent systematic	s. Overview of ns, principles of
2001. Stuessy T. F.: Pl Judd W. S., Can Phylogenetic Ap	ers S. M.: Prom ant Taxonomy. pbell Ch. S., K pproach, 2nd ed . (Eds.): Medzir	- New York, Oxf ellogg E. A., Ste Sinauer Assoc	e rostlin Univer ord 1990. vens P. F., Donog tiates, Sunderland nickej nomenklat	hue M. J.: Plant	Systematics. A
Course languag	e:				
Course assessm Total number of		nts: 120			
A	В	С	D	Е	FX
40.02	20.83	17.5	10.83	6.67	3.33
40.83	20.05				3.33
		írtonfi, PhD., Mg	gr. Vladislav Kola	arčik, PhD.	5.55
	RNDr. Pavol M		gr. Vladislav Kola	arčik, PhD.	5.55

University	P. J. Šafái	rik University i	n Košice				
Faculty: Fa	aculty of So	cience					
Course ID TVa/11	: ÚTVŠ/	Course name	: Sports Acti	vities I.			
Course ty Recomme Per week	pe: Practic nded cour	rse-load (hours dy period: 28					
Number of	credits: 2						
Recommer	ided seme	ster/trimester	of the cours	e: 1.			
Course lev	el: I., I.II.,	II.					
Prerequisi	ties:						
Conditions	for course	e completion: completion: articipation in c	classes.				
relationshi	physical co p of studen	ondition and pe ts to the selecto			1		g the
University floorball, y tennis, spo In the first and particu physical co Last but no means of a In addition physical co the premise	ne of the co optional su provides f yoga, pilate rts for unfi two semes larities of i ondition, co ot least, the special pro- to these se lucation tra- es of the fac	burse: ubject, the Inst for students the es, swimming, t persons, stree sters of the firs ndividual sport oordination abi important role ogram of medic sports, the Inst inings with an a culty or Univers	e following s body-buildin tball, tennis, it level of ed ts, motor skil ilities, physic of sports act cal physical o itute offers to attractive pro	ports activiti ag, indoor for and volleyba ucation stude ls, game activities cal performativities is to e education to for those wh gram and org	ies: aerobics, otball, self-de all. ents will mas vities, they wince, and mot eliminate swin influence and o are interest ganises variou	basketball, efence and l ster basic ch ill improve l tor performa mming illite mitigate ur ted winter a us competitio	badminton karate, table aracteristics evel of their ince fitness gracy and by fitness. and summer ons, either a
Recommer	nded litera	ture:					
Course lan	guage:						
	essment						
Course ass		sed studente [,] 1	1672				
Course ass		abs-B	1672 abs-C	abs-D	abs-E	n	neabs

Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Ing. Iveta Cimboláková, PhD.

Date of last modification: 18.08.2017

	COUR	RSE INFORM	MATION LI	ETTER		
University: P. J. Šaf	árik University	in Košice				
Faculty: Faculty of	Science					
Course ID: ÚTVŠ/ TVb/11	Course name	: Sports Acti	vities II.			
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pu	ice 1 rse-load (hour 1dy period: 28					
Number of credits:	2					
Recommended sem	ester/trimester	of the cours	e: 2.			
Course level: I., I.II	, II.					
Prerequisities:						
Conditions for cour Conditions for cours Final assessment an	se completion:		ses - min. 759	<i>%</i> .		
Learning outcomes: Learning outcomes: Increasing physical relationship of stude	condition and p			-		g the
Brief outline of the Brief outline of the Within the optional University provides floorball, yoga, pila tennis, sports for un In the first two sem and particularities of physical condition, Last but not least, th means of a special p In addition to these physical education to the premises of the fa	course: subject, the Inst for students the tes, swimming, fit persons, streed esters of the first individual sport coordination ab e important role rogram of medit sports, the Inst rainings with an aculty or Univer	e following s body-buildir etball, tennis, st level of ed ts, motor skil ilities, physic e of sports ac cal physical titute offers attractive pro	sports activiting, indoor for and volleyba ucation study ls, game activities is to ever tivities is to ever education to for those who gram and org	ies: aerobics otball, self-d all. ents will ma- vities, they w nce, and mo eliminate swi influence an o are interes ganises vario	, basketball, lefence and l ster basic ch vill improve l tor performa imming illite d mitigate un sted winter a us competitio	badminton, karate, table aracteristics evel of their ance fitness. eracy and by hfitness. and summer ons, either at
Recommended liter	ature:					
Course language:						
Course assessment						
Total number of ass abs abs-A		10971 abs-C	abs-D	abs-E	n	neabs
			1		n 10.12	
85.37 0.57	0.02	0.0	0.0	0.05	10.13	3.86

Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Marcel Čurgali, Ing. Iveta Cimboláková, PhD.

Date of last modification: 18.08.2017

University:	P. J. Šafárik	University in	n Košice				
Faculty: Fa	culty of Scie	ence					
Course ID: TVc/11	ÚTVŠ/ C	Course name:	Sports Acti	vities III.			
Course ty Recommen Per week: Course me	pe: Practice nded course 2 Per study ethod: prese	l the method e-load (hours y period: 28 ent					
Number of	credits: 2						
Recommen	ded semeste	er/trimester	of the cours	e: 3.			
Course leve	el: I., I.II., II	•					
Prerequisit	ies:						
Conditions	for course	completion:					
Learning o	utcomes:						
Brief outlin	e of the cou	irse:					
Recommen	ded literatu	ire:					
Course lang	guage:						
Course asso Total numb		ed students: 6	910				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
89.84	0.04	0.0	0.0	0.0	0.03	4.23	5.86
Horbacz, Ph	D., Mgr. Dá	Čurgali, Mgr. ivid Kaško, N prof. RNDr. S	Igr. Zuzana	Küchelová, l	PhD., doc. Pa	edDr. Ivan	Uher, PhD.,
Date of last	modificatio	on: 18.08.201	7				
Approved:	Guaranteep	rof. RNDr. M	artin Bačkoi	, DrSc.			

University:	P. J. Šafárik	University i	n Košice				
Faculty: Fa	culty of Scie	ence					
Course ID: TVd/11	ÚTVŠ/ C	ourse name:	Sports Acti	vities IV.			
Course typ Recomment Per week:	pe: Practice nded course	l the method e-load (hours y period: 28					
Number of	credits: 2						
Recommen	ded semeste	er/trimester	of the cours	e: 4.			
Course leve	e l: I., I.II., II						
Prerequisit	ies:						
Conditions	for course	completion:					
Learning o	utcomes:						
Brief outlin	e of the cou	irse:					
Recommen	ded literatu	ire:					
Course lang	guage:						
Course asse Total numb		ed students: 5	045				
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
85.09	0.3	0.04	0.0	0.0	0.0	6.82	7.75
Horbacz, Ph	D., Mgr. Dá	Čurgali, Mgr. Ivid Kaško, N Irof. RNDr. S	Agr. Zuzana	Küchelová, I	PhD., doc. Pa	aedDr. Ivan	Uher, PhD.,
Date of last	modificatio	on: 18.08.201	17				
Approved:	Guaranteen	rof. RNDr. M	artin Bačko	r, DrSc.			

5	Šafárik Univers				
Faculty: Faculty	of Science				
Course ID: ÚBE UGM1/03	V/ Course na	ame: Introductio	n to Gene Mani	pulations	
Course type, sco Course type: La Recommended Per week: 2 / 2 Course method	ecture / Practico course-load (h Per study peri	e iours):			
Number of credi	ts: 6				
Recommended s	emester/trime	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for c Oral examination	1	ion:			
Learning outcom To provide the st recombinant DN	udents with the	principles of pre	eparation and ap	plication of techn	iques of
used for DNA m recombinant DN	ic acids. Restric anipulation. La A. Recombinar	abeling of DNA. nt vectors. Selection	Nucleic acid hy	nd ligation of DNA ybridization. PCR ansfer of recombines in E. coli. DNA	Preparation of nant DNA to the
Engineering. Bla	ose, S. B.: Prin ckwell Scientif , M and Reichs	ic Publication, L	ondon, 1992	An Introduction to	
Course language					
	nt				
Course assessme Total number of	assessed studer	nts: 224			
	assessed studer B	nts: 224	D	E	FX
Total number of		r	D 2.68	E 0.45	FX 0.45
Total number ofA59.82	B 27.68	C 8.93			
Total number of A	B 27.68 Mariana Koles	C 8.93 sárová, PhD.			

University: P. J. Ša	afárik Universi	ty in Košice				
Faculty: Faculty o	f Science					
Course ID: KPPaPZ/UPR/03	Course na	Course name: The Art of Aiding by Verbal Exchange				
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	ctice ourse-load (ho study period:	ours):				
Number of credits	s: 2					
Recommended se	mester/trimes	ter of the cours	se: 4.			
Course level: II.						
Prerequisities:						
Conditions for co	urse completio	on:				
Learning outcome	es:					
Brief outline of th	e course:					
Recommended lit	erature:					
Course language:						
Course assessmen Total number of as	-	s: 49				
А	В	С	D	E	FX	
85.71	4.08	2.04	2.04	2.04	4.08	
Provides: Mgr. On	drej Kalina, Pl	nD.				
Date of last modif	ication: 21.08	2017				
Approved: Guarar	nteeprof. RND	. Martin Bačko	r, DrSc.			

University: P. J. Šafárik University in Košice						
Faculty: Faculty	· · · · · · · · · · · · · · · · · · ·					
Course ID: ÚB ZOG1/03	EV/ Course na	ame: Zoogeograp	bhy			
Course type: I Recommended	ope and the met Lecture / Practice I course-load (h 2 Per study perio d: present	ours):				
Number of cred	lits: 6					
Recommended semester/trimester of the course:						
Course level: I., II.						
Prerequisities:						
Active participation in seminars. Preparation of oral presentation to selected topic. Semestral written test. Oral examination.						
Learning outco	mos.					
The main goal of animals on the I	of the subject is t	o get knowledge phic regionalizat history.				
The main goal of animals on the I on the faunal dia Brief outline of This course will processes that in information on interaction with distributions. Th	of the subject is the Earth, zoogeograstribution in the Earth the course: the course: I review our curnfluence distribution the historical and the new ironmental the course will employed by the subject of the the course will employed by the subject of the the course will employed by the the the course will employed by the	phic regionalizat	ion of the Earth's ng of the pattern and their attribut y, genetics, and inental drift, cli ve and analytical	s surface and hu s of animal dist res. Zoogeograp physiology of a mate) in regula	man influence tribution and the hy will integrate nimals and their tting geographic ful in hypothesis	
The main goal of animals on the I on the faunal dif Brief outline of This course will processes that in information on interaction with distributions. The testing in zooge conservation). Recommended Buchar, J., 1983 Darlington, P.J., Lomolino M.V.,	of the subject is the Earth, zoogeograsstribution in the Earth zoogeograsstribution in the Earth zoogeograms and the course of the course will employ and will literature: B: Zoogeografie., 1998: Zoogeografie, Brown J.H., Rice	phic regionalizat history. rent understandin tions of species d current ecolog processes (cont phasize descripti l illustrate applie	ion of the Earth's ng of the pattern and their attribut y, genetics, and inental drift, cli ve and analytical d aspects of zoos aphical distributi Biogeography. S	s surface and hu s of animal dist res. Zoogeograp physiology of a mate) in regula approaches use geography (e.g.	man influence tribution and the hy will integrate nimals and their tting geographic ful in hypothesis refuge design in Krieger, USA es, 1-845	
The main goal of animals on the I on the faunal dif Brief outline of This course will processes that in information on interaction with distributions. The testing in zooge conservation). Recommended Buchar, J., 1983 Darlington, P.J., Lomolino M.V.,	of the subject is the Earth, zoogeograsstribution in the Earth zoogeograsstribution in the Earth zoogeograms and the course of the course will emplement and the historical and the expression of the course will emplement and the course will emplem	phic regionalizat history. rent understandin tions of species d current ecolog processes (cont phasize descripti l illustrate applie SPN Praha raphy: The geogr ddle B. R., 2005:	ion of the Earth's ng of the pattern and their attribut y, genetics, and inental drift, cli ve and analytical d aspects of zoos aphical distributi Biogeography. S	s surface and hu s of animal dist res. Zoogeograp physiology of a mate) in regula approaches use geography (e.g.	man influence tribution and the hy will integrate nimals and their tting geographic ful in hypothesis refuge design in Krieger, USA es, 1-845	
The main goal of animals on the I on the faunal dia Brief outline of This course will processes that in information on interaction with distributions. The testing in zooge conservation). Recommended Buchar, J., 1983 Darlington, P.J., Lomolino M.V., Plesník, P., Zatk Course languag	of the subject is the Earth, zoogeograsstribution in the Earth, zoogeograsstribution in the Earth, zoogeograsstribution in the Earth course: I review our currently our currently our current of the historical and the historical and the eourse will employed with the historical end with the historical and the course will employed with the historical and the eourse will employed with the historical and the eourse will employed with the historical and the eourse will employed and with the historical and the eourse will employed and with the historical and the eourse will employed and with the historical and the eourse will employed and with the historical and the eourse will employed and the eourse will employ and with the eourse will employ and with the historical and the eourse will employ and with the eourse with the eourse will employ and with the eourse with the eourse will employ and with the eourse with	phic regionalizat history. rent understandin tions of species d current ecolog processes (cont aphasize descripti l illustrate applie SPN Praha raphy: The geogr ddle B. R., 2005: iogeografia. Vyso	ion of the Earth's ng of the pattern and their attribut y, genetics, and inental drift, cli ve and analytical d aspects of zoos aphical distributi Biogeography. S	s surface and hu s of animal dist res. Zoogeograp physiology of a mate) in regula approaches use geography (e.g.	man influence tribution and the hy will integrate nimals and their tting geographic ful in hypothesis refuge design in Krieger, USA es, 1-845	
The main goal of animals on the I on the faunal dia Brief outline of This course will processes that in information on interaction with distributions. The testing in zooge conservation). Recommended Buchar, J., 1983 Darlington, P.J., Lomolino M.V., Plesník, P., Zatk Course languag	of the subject is the Earth, zoogeograsstribution in the Earth, zoogeograsstribution in the Earth, zoogeograsstribution in the Earth, zoogeograsstribution in the Earth course will current the historical and nenvironmental the course will employed and will literature: B: Zoogeografie. , 1998: Zoogeografie. , Brown J.H., Riccalík, F., 1996: B	phic regionalizat history. rent understandin tions of species d current ecolog processes (cont aphasize descripti l illustrate applie SPN Praha raphy: The geogr ddle B. R., 2005: iogeografia. Vyso	ion of the Earth's ng of the pattern and their attribut y, genetics, and inental drift, cli ve and analytical d aspects of zoos aphical distributi Biogeography. S	s surface and hu s of animal dist res. Zoogeograp physiology of a mate) in regula approaches use geography (e.g.	man influence tribution and the hy will integrate nimals and their tting geographic ful in hypothesis refuge design in Krieger, USA es, 1-845	

Provides: prof. RNDr. Ľubomír Kováč, CSc.

Date of last modification: 23.02.2018

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aer	obic 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 credits: 2						
Recommended semester/trimester of the course:						
Course level: I., II.						
Prerequisities:	Prerequisities:					
Conditions for course completion: Conditions for course completion: Attendance						
Learning outcomes: Learning outcomes: Students will be provided an overview of possibilities how to spend leisure time in seaside conditions actively and their skills in work and communication with clients will be improved. Students will acquire practical experience in organising the cultural and art-oriented events, with the aim to improve the stay and to create positive experiences for visitors.						
 Brief outline of the course: Brief outline of the course: 1. Basics of seaside aerobics 2. Morning exercises 3. Pilates and its application in seaside conditions 4. Exercises for the spine 5. Yoga basics 6. Sport as a part of leisure time 7. Application of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) 8. Application of seaside cultural and art-oriented activities in leisure time 						
Recommended literature:						
Course language:						
Course assessment Total number of assessed students: 33						
	n					
	12.12	87.88				
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.						
Date of last modifica	Date of last modification: 18.08.2017					